General Disclaimer

One or more of the Following Statements may affect this Document

- This document has been reproduced from the best copy furnished by the organizational source. It is being released in the interest of making available as much information as possible.

- This document may contain data, which exceeds the sheet parameters. It was furnished in this condition by the organizational source and is the best copy available.

- This document may contain tone-on-tone or color graphs, charts and/or pictures, which have been reproduced in black and white.

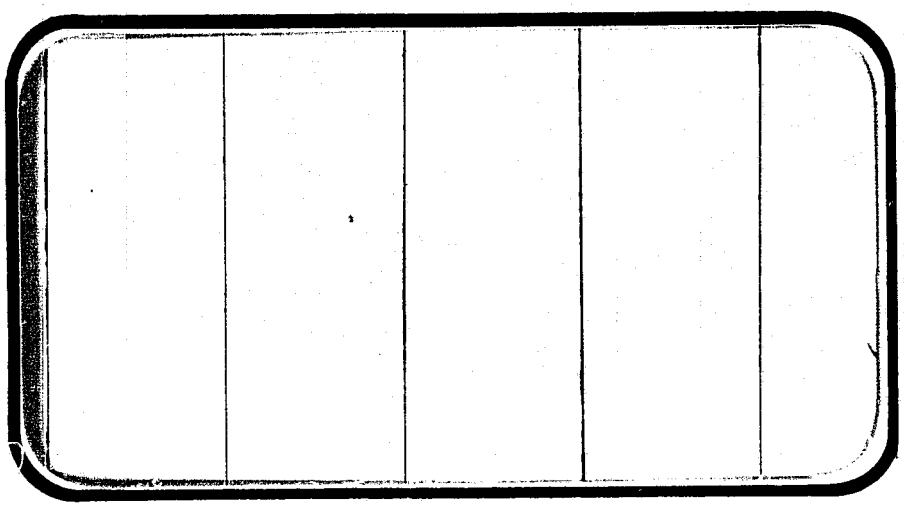
- This document is paginated as submitted by the original source.

- Portions of this document are not fully legible due to the historical nature of some of the material. However, it is the best reproduction available from the original submission.

Produced by the NASA Center for Aerospace Information (CASI)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION

NASA CR-
141539



N75-30236

(NASA-CR-141539) RESULTS OF CONVECTIVE HEATING TESTS OF A LONGITUDINAL GAP ON THE ROCKWELL FLAT PLATE MODEL (15-0, INSERT 7) IN THE NASA/AMES RESEARCH CENTER (Chrysler Corp.) 414 p HC $10.50 CSCL 22B G3/18

Unclas
33791

SPACE SHUTTLE

AEROTHERMODYNAMIC DATA REPORT



JOHNSON SPACE CENTER

HOUSTON, TEXAS

DATA MANagement services

SPACE DIVISION CHRYSLER CORPORATION

July, 1975

DMS-DR-2250
NASA CR-141,539

RESULTS OF CONVECTIVE HEATING TESTS OF A LONGITUDINAL GAP ON THE ROCKWELL FLAT PLATE MODEL (15-0, INSERT VII) IN THE NASA/AMES 3.5-FOOT HYPERSONIC WIND TUNNEL (TEST OH43)

By

M. Quan
Shuttle Aero Sciences
Rockwell International Space Division
William K. Lockman
NASA-Ames Research Center

Prepared under NASA Contract Number NAS9-13247

By

Data Management Services
Chrysler Corporation Space Division
New Orleans, La. 70189

for

Engineering Analysis Division

Johnson Space Center
National Aeronautics and Space Administration
Houston, Texas

WIND TUNNEL TEST SPECIFICS:

Test Number: ARC 3.5-182
NASA Series Number: OH43
Model Number: 15-0
Test Dates: 10 through 21 December 1973
Occupancy Hours: 130

FACILITY COORDINATOR:

Joseph G. Marvin
Mail Stop 229-1
NASA-Ames Research Center
Moffett Field, California 94035

Phone: (415) 965-5390

AEROHEATING ANALYSIS ENGINEER:

C. B. Blumer
Mail Code AC78
Rockwell International
Space Division
12214 Lakewood Blvd.
Downey, California 90241

Phone: (213) 922-1663

PROJECT ENGINEERS:

M. Quan
Mail Code AC07
Rockwell International
Space Division
12214 Lakewood Blvd.
Downey, California 90241

Phone: (213) 922-2849

William K. Lockman
Mail Stop 229-1
NASA-Ames Research Center
Moffett Field, California 94035

Phone: (415) 965-6255

DATA MANAGEMENT SERVICES:

Prepared by: Liaison--D. A. Sarver
Operations--Maurice Moser, Jr.

Reviewed by: G. G. McDonald, J. L. Glynn

Approved: _____ Concurrence _____
N. D. Kemp, Manager
Data Management Services

J. G. Swider, Manager
Flight Technology Branch

Chrysler Corporation Space Division assumes no responsibility for the data presented other than display characteristics.

RESULTS OF CONVECTIVE HEATING TESTS OF A LONGITUDINAL GAP ON THE ROCKWELL FLAT PLATE MODEL (15-0, INSERT VII) IN THE NASA/AMES 3.5-FOOT HYPERSONIC WIND TUNNEL (TEST OH43)

By

M. Quan, Rockwell International Space Division
William K. Lockman, NASA-Ames Research Center

ABSTRACT

This report presents results obtained from tests in the NASA-Ames 3.5-ft. Hypersonic Wind Tunnel to determine aerodynamic heating rates in a gap running parallel or slightly askew to the flow direction. The model used, 15-0, was a flat plate instrumented in thin-skin sections with chromel-constantan thermocouples. Heating rate profiles lengthwise along and down into the gap were obtained. Additional data were obtained from a total temperature probe and rake fabricated during the test to investigate an apparent aerodynamic cooling trend in the gap.

Model variables were width, depth, length, and orientation of the gap relative to the flow direction. The tests were conducted at Mach 5.1 and Reynolds numbers per foot of $.5 \times 10^6$, 1.0×10^6, and 2.0×10^6.

TABLE OF CONTENTS

	Page
ABSTRACT	iii
INDEX OF MODEL FIGURES	2
INTRODUCTION	3
NOMENCLATURE	4
REMARKS	7
CONFIGURATIONS INVESTIGATED	9
INSTRUMENTATION	11
TEST FACILITY DESCRIPTION	12
TEST PROCEDURE	13
DATA REDUCTION	14
REFERENCES	17
TABLES	
I. LOCATION OF STARBOARD INSTRUMENTATION	18
II. THERMOCOUPLE HOOKUP SCHEDULES	19
III. RUN SCHEDULE	21
FIGURES	25
APPENDIX	
TABULATED DATA	40

INDEX OF MODEL FIGURES

Figure	Title	Page
1.	Overall Model Dimensions and Total Temperature/Pitot Pressure Probes.	25
2.	Longitudinal Gap Incidence.	26
3.	Right Side Instrumentation.	27
4.	Instrumented Modules.	28
5.	Module Positions.	29
6.	Total Temperature Instrumentation.	
	a. Total Temperature Probe--Runs 54-64	31
	b. Total Temperature Rake--Runs 75-93	31
7.	Measured Gap Widths.	32
8.	Model photographs.	
	a. Installation of 15-0 Flat Plate Model in the NASA-Ames 3.5-Foot Hypersonic Wind Tunnel	38
	b. Flat Plate Model with 15° Gap Incidence	39

INTRODUCTION

This report presents the test description and data from investigations into the aerodynamic heating rates in gaps of various depths, widths, lengths, and orientations to the flow. The model used, 15-0 flat plate model, was built to simulate a streamwise gap at the juncture of the thermal protection system (TPS) tiles. Heating profiles were obtained using thin-skin sections instrumented with chromel-constantan thermocouples.

The model used the longitudinal gap insert, designated Insert VII. Previous tests, OH2A and OH2B, were conducted in the Ames 3.5-ft. HWT using this model (with different inserts) to test the smooth plate, single and multiple transverse (to the flow) gaps, and longitudinal and diagonal intersecting gaps and to test for pressure profiles over the plate. These tests were documented in Reference 1.

The NASA/Rockwell test number for this test was OH43. It was conducted in the NASA/Ames Research Center's 3.5-ft. Hypersonic Wind Tunnel from December 10 to December 21, 1973.

NOMENCLATURE

Symbol	Computer Symbol	Description
b		thickness of model skin
C		specific heat of model skin material, BTU/lb mass
C_0, C_1, C_2		constants in curve fit for C over model wall temperature range
c_p		specific heat at constant pressure of air stream (perfect gas value), BTU/lb
CHAN	CHAN	recording-system channel
H_{aw}	HAW	adiabatic wall enthalpy, BTU/lb mass or joule/kilogram
H_t	HT	free-stream total enthalpy, BTU/lb mass or joule/kilogram
H_{wi}	HW	enthalpy based on model wall temperature for given T/C location at initial time, BTU/lb mass or joule/kilogram
h	H	heat-transfer coefficient at model wall for given T/C location
h_s	HS	stagnation-point heat-transfer coefficient for reference sphere
h/h_s(X.XXX)	H/HS(X.XXX)	ratio of model heat-transfer coefficient to heat-transfer coefficient of reference sphere for H_{aw}/H_t= X.XXX (1.0, 0.9, 0.85)
L	LENGTH	model reference length, inches
M_∞	MACH	free-stream Mach number
P_t	PT	free-stream total pressure, PSI or atmospheres
$\dot{q}_i$	Q	heat-transfer rate at model wall for given T/C location at initial time, BTU/ft^2 sec

NOMENCLATURE (Continued)

Symbol	Computer Symbol	Description
$\dot{q}_s$	QS	stagnation-point heat-transfer rate for reference sphere at initial time
R_s	RS	reference sphere radius at model scale equivalent to 0.305 m (1 ft) for full-scale vehicle
Re_∞/ft	RE/FT	free-stream Reynolds number per foot; also, per meter
$Re_{\infty,L}$	REL	free-stream Reynolds number based on model reference length, L
St(X.XXX)	ST(X.XXX)	Stanton number based on free-stream flow conditions and the model heat-transfer coefficient for H_{aw}/H_t = X.XXX (1.0, 0.9, 0.85)
T		temperature, degrees Rankine/Fahrenheit
T_t	TT	free-stream total temperature, degrees Rankine/ Fahrenheit
T_{w_i}	TW	model wall temperature for given T/C location at initial time, degrees Rankine/Fahrenheit
T/C	T/C	thermocouple
t	T	time, sec.
t_i	TIME	initial time (before model insertion into flow) extrapolated from $f(T_w)$ vs time, sec.
V	V	velocity, ft/sec
W		density of model skin material, Lb mass/ft^3
μ	MU	viscosity of air, $\frac{lb - sec}{ft^2}$
ρ	RHO	density of air, slugs/ft $= \frac{lb - sec^2}{ft^4}$

NOMENCLATURE (Concluded)

SUBSCRIPTS

aw	adiabatic wall
i	initial value before model insertion into tunnel flow
PG	perfect gas (calorically and thermally perfect gas)
s	reference sphere
t	free-stream total condition
w	wall
∞	free-stream
1	conditions upstream of shock
2	conditions downstream of shock

REMARKS

Wind tunnel tests were conducted using a flat plate model to simulate a gap between TPS tiles in a direction parallel or at small angles from the flow direction. The heating rate profiles were obtained as a function of distance from down and along the gap. The gap itself was variable in width, depth, length, and orientation to the flow. Gap/flow angles were set at 0°, 5°, 10°, and 15°. In addition, tunnel Reynolds number was varied from 0.5×10^6 to 2.0×10^6/ft. Angles of attack and yaw were set at 0°. Tunnel free-stream Mach number was nominally 5.1.

Data were obtained with chromel-constantan thermocouples attached to thin-skin sections. One side of the gap was instrumented with three rows of thermocouples to obtain heating profiles as a function of distance along the gap. The other side had instrumented modules spaced between filler blocks of various lengths so that the instrumented modules could be moved to different positions along the gap. These modules are instrumented so that heating rate profiles can be obtained as a function of distance away from and down into the gap.

During the test, a single total temperature thermocouple probe was fabricated and located in the gap to investigate the actual gas temperature environment in the gap. These data were recorded and are presented in this report for Runs 54-64. In an attempt to obtain better definition of this temperature profile, a total temperature rake was fabricated. This was installed and data recorded during Runs 75-93. Location of this special instrumentation as well as that of the regular instrumentation is shown

in the figures and tables.

Previous tests conducted with this model with other instrumented inserts may be of interest to the reader since a baseline (no gaps), single and multiple transverse gaps, edge misalignment, intersecting gaps, and gap orientation were tested. The results from these tests are documented in Reference 1.

CONFIGURATIONS INVESTIGATED

The model used, designated number 15-0, was a flat plate 60 inches long, 27 inches wide, and 2 inches thick with a double-angled, wedged leading edge. The model consisted of the basic flat plate structural carrier in which was fitted an instrumented insert. The longitudinal gap insert used in this test was designated Insert VII. Instrumentation was located at various locations along this gap. Figures 1 to 5 show the overall configuration and instrumentation locations.

The model was constructed of 17-4, 17-7, and 15-5 PH stainless steel. All instrumented thin-skin sections were made of 17-4 PH. The instrumented areas were machined to a nominal skin thickness of .015 in. on the starboard side and .010 in. on the port-side modules.

Only the longitudinal gap was instrumented on this model. The starboard side of the gap had three rows of thermocouples running along the entire length (Fig. 3). The port side of the gap was made up by five instrumented modules placed between uninstrumented metal spacers. These modules were designed to give a detailed profile of the heating in the gap and on the immediate surface at a constant longitudinal station along the gap. Figure 4 shows a sketch of the instrumentation locations. There are 75 thermocouples on the starboard side (25 on each row) and 90 on the modules on the port side.

The longitudinal gap was variable in width, depth, and length. The width could be tested at .025, .050, or .100 in. Depth variation was .2, .4, .8, or 1.5 in. By filling various lengths of the whole gap, a gap

6 or 12 inches in length could be formed. Using the various length fillers, these short gaps could be moved to positions forward or aft in six-inch increments. The incidence of the longitudinal gap with relation to the model centerline could also be varied from 0°, 5°, 10°, or 15°.

INSTRUMENTATION

The model was instrumented with a total of 165 chromel-constantan thermocouples (T/C's). Seventy-five were located in three rows on the starboard side of the gap and ninety T/C's were on the five instrumented modules on the gap port side. Two of the modules had 15 T/C's while the other three had 20 T/C's each. Thermocouple locations are shown in Figures 3 and 4 and Table 1. The arrangement of the modules for each run are detailed in Figure 5.

All thermocouples were chromel-constantan 36 gauge (.005-in. dia.) and 40 gauge (.0035-in. dia.), wire spot welded to the thin skin. They were connected on the other end in groups of five to a connector plug. Therefore, selection of thermocuples for the recording of data had to be by groups of five.

Three total temperature/pitot pressure probes were mounted on the aft end of the model. Figure 1 shows their locations. The total temperatures and pitot pressures recorded are listed in the tabulated data at the end of this report, but they were not used in the data reduction. Instead, measurements obtained from the standard tunnel instruments were used.

In an attempt to get a better idea of the actual air temperature environment down in the gap, a single total temperature probe was fabricated and, later, a rake with five sensors. The single probe was just a two-wire thermocouple tack-welded along the side of the gap. The rake was fabricated with the thermocouple wire sensors protruding from the gap wall at a nominal .025 inch through small holes drilled in the wall. Figures 6a and 6b provide details on the location and geometry.

TEST FACILITY DESCRIPTION

The NASA-Ames 3.5-Foot Hypersonic Wind Tunnel is a closed-circuit, blowdown-type tunnel capable of operating at nominal Mach numbers of 5, 7, and 10 at pressures to 1800 psia and temperatures to 3400°R for run times to four minutes. The major components of the facility include a gas storage system where the test gas is stored at 3000 psi, a storage heater filled with aluminum-oxide pebbles capable of heating the test gas to 3400°R, axisymmetric contoured nozzles with exit diameters of 42 inches for generating the desired Mach number, and a 900,000 ft^3 vacuum storage system which operates to pressures of 0.3 psia. The test section itself is an open-jet type enclosed within a chamber approximately 12 feet in diameter and 40 feet in length, arranged transversally to the flow direction.

A model support system is provided that can pitch models through an angle-of-attack range of -20 to +20 degrees, in a vertical plane, about a fixed point of rotation on the tunnel centerline. This rotation point is adjustable from 1 to 5 feet from the nozzle exit plane. The model normally is out of the test stream (strut centerline 37-inches from tunnel centerline) until the tunnel test conditions are established, after which it is inserted. Insertion time is adjustable to as little as 1/2 second and models may be inserted at any strut angle.

A high-speed, analog-to-digital data acquisition system is used to record test data on magnetic tape. The present system is equipped to measure and record the outputs from 80 transducers in addition to 20 channels of tunnel parameters.

TEST PROCEDURE

The model was sting mounted with angles of attack, yaw, and roll set at 0° throughout the test. A clinometer was used to check the angles of attack and roll.

The model was injected into the airstream by a quick-insert mechanism when the tunnel flow reached steady-state conditions and retracted at the completion of data acquisition. The output from those model thermocouples hooked up and tunnel conditions were recorded at .07-second intervals from the beginning of injection to the end of retraction.

There was a total of 165 thermocouples on this model. However, it was only possible to record 75 channels of data per run. Therefore, certain configurations had to be tested twice to obtain readings from thermocouples on both sides of the gap. Thermocouple hook-up schedules are presented in Table 2. The run schedule in Table 3 lists the runs with the hook-up schedules.

Measurements were taken from Runs 6-93 (after every model configuration change) of the actual gap width across from the instrumented modules and the spacers between them. This was to record any irregularities in gap width due to the modular nature of that side of the gap. These data are presented in Figure 7. The module positions for each run are listed in the run schedule (Table 3) and the arrangements themselves are shown in Figure 5.

DATA REDUCTION

All test data were reduced at the NASA/Ames Research Center using the data reduction techniques outlined below. The thermocouple data were reduced using the one-dimensional, thin-wall equation:

$$\dot{q} = WCb \frac{dT_w}{dt} = h\,(H_{aw} - H_w) \equiv hH_t \left(\frac{H_{aw}}{H_t} - \frac{H_w}{H_t}\right) \tag{1}$$

which neglects heat-conduction losses.

Assuming that W and h are constant and

$$C = C_o + C_1 T_w + C_2 T_w^2 \text{ for } T_w \text{ ranges} \tag{2}$$

the integration of equation (1) for $t = t_i$ to t and $T_w = T_{w_i}$ to T_w yields the linear equation:

$$f(T_w) = -\ln\left(\frac{T'_{aw} - T_w}{T'_{aw} - T_{w_i}}\right) - \left[\frac{C_1}{C'_{aw}} + \frac{C_2}{C'_{aw}}\left(T'_{aw} + \frac{T_w + T_{w_i}}{2}\right)\right](T_w - T_{w_i})$$

$$= \frac{hc_p}{WC'_{aw}b}(t - t_i) \tag{3}$$

where it is defined that:

$$T'_{aw} \equiv \frac{H_{aw}}{c_p} \equiv \frac{H_{aw}}{H_t}\,\frac{H_t}{c_p} \geq (T_{aw})_{PG} \tag{4}$$

$$C'_{aw} \equiv C_o + C_1 T'_{aw} + C_2 T'^2_{aw} \tag{5}$$

= specific heat at adiabatic wall temperature

The form of Eq (3) is $f(T_w) = mt + a$ where m is the slope and a is the intercept for a straight line if heat-conduction errors are negligible. Thus, deviations from a straight line can indicate heat-conduction effects.

The slope, m, of $f(T_w)$ vs t from Eq (3) is computed by a least-squares, straight-line fit over a finite time interval (approx 1 sec) beginning when the model reaches uniform tunnel flow. The value of the heat-transfer coefficient, h, is then determined from:

$$h = \frac{WC'_{aw}b}{c_p} m \tag{6}$$

Using this value of h, the heat-transfer rate is evaluated at the initial time, t_i, when the model is isothermal at the initial wall enthalpy, H_{w_i}

$$\dot{q} = \dot{q}_i = h\,(H_{aw} - H_{w_i}) \equiv hH_t\,(\frac{H_{aw}}{H_t} - \frac{H_{wi}}{H_t}) \tag{7}$$

where H_{aw}/H_t is the same value used to evaluate h. The resultant value of $\dot{q}$ is independent of the value of H_{aw}/H_t used for both the h and $\dot{q}$ evaluations.

The reference sphere heating is also evaluated at the inital wall enthalpy by the method of Fay and Riddell (ref. 3):

$$\dot{q}_s = h_s\,(H_t - H_{w_i}) \equiv h_s\,H_t\,(1.0 - \frac{H_{w_i}}{H_t}) \tag{8}$$

The model-to-sphere ratio of heat-transfer coefficients is then determined from Eqs. (7) and (8) as

$$\frac{h}{h_s} = \frac{\dot{q}_i}{\dot{q}_s}\left[\frac{1.0 - H_{w_i}/H_t}{H_{aw}/H_t - H_{w_i}/H_t}\right] \tag{9}$$

where $\dot{q}_i$ is constant for all values of H_{aw}/H_t.

To determine h/h_s for various values of H_{aw}/H_t, the particular value of H_{aw}/H_t is substituted into Eq. (9).

The Stanton number is defined as

$$St \equiv \frac{h}{\rho u} = \frac{\dot{q}_i}{\rho u(H_{aw} - H_{w_i})} \tag{10}$$

where for free-stream conditions, $\rho u = \rho_\infty V_\infty$.

The calculations of the model heating, reference sphere heating, and Reynolds number included the corrections of NACA report 1135 (ref. 4) for calorically imperfect, thermally perfect air. Keyes' equation for viscosity (see ref. 5) was also used for the sphere heating and Reynolds number computations:

$$\mu = \frac{0.0232 \times 10^{-6} T^{0.5}}{1 + \frac{220}{T} \times 10^{-9/T}} \tag{11}$$

where the units for T and μ are °R and lb-sec/ft^2, respectively.

REFERENCES

1. Foster, Thomas F., Lockman, William K., and Grifall, William J.: Thermal Protection System Gap Heating Rates of the Rockwell International Flat Plate Heat Transfer Model. NASA CR-134, 077, DATAMAN Report DMS-DR-2035, November 1973.

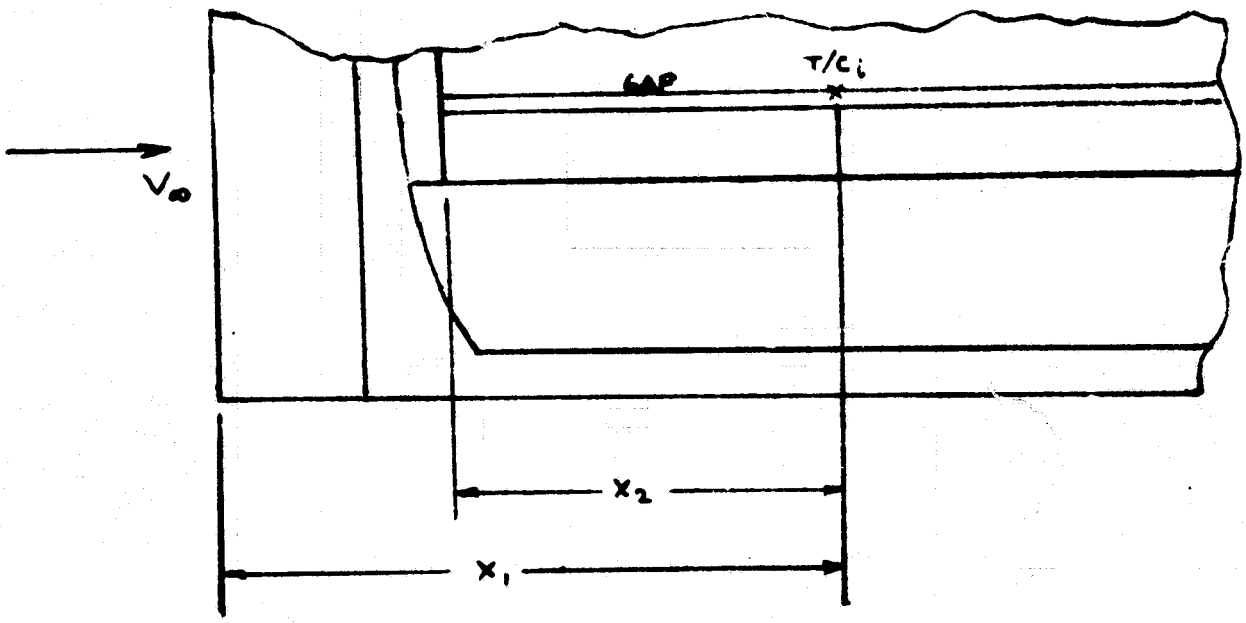
2. Quan, M. and Foster, T. F.: Pretest Report for Aerodynamic Heating Tests on the Rockwell International Flat Plate Model 15-0 with a Longitudinal Gap (Insert VII) in the ARC 3.5-foot Hypersonic Wind Tunnel - OH43. SD73-SH-0068, December 5, 1973.

3. Fay, J. A.; and Riddell, F. R.: Theory of Stagnation Point Heat Transfer in Dissociated Air. J. Aeron, Sci;, Vol. 25, No. 1, Feb. 1958, pp. 73-85.

4. Ames Research Staff: Equations, Tables, and Charts for Compressible Flow. NACA Rept. 1135, 1953

5. Bertram, Mitchel H.: Comment on "Viscosity of Air." J. Spacecraft Rockets, Vol. 4, No. 2, Feb. 1967, pp. 287-288.

TABLE I. - LOCATION OF STARBOARD INSTRUMENTATION



T/C NO.			X_1, in. X-dim. from L.E.	X_2, in. X-dim. from Start of Gap
1	26	51	53.244	39.009
2	27	52	52.246	38.011
3	28	53	51.246	37.011
4	29	54	50.247	36.012
5	30	55	49.249	35.014
6	31	56	48.250	34.015
7	32	57	46.249	32.014
8	33	58	44.242	30.007
9	34	59	42.247	28.012
10	35	60	40.237	26.002
11	36	61	38.237	24.002
12	37	62	36.238	22.003
13	38	63	34.238	20.003
14	39	64	32.237	18.002
15	40	65	30.237	16.002
16	41	66	28.237	14.002
17	42	67	26.237	12.002
18	43	68	24.236	10.001
19	44	69	22.236	8.001
20	45	70	20.233	5.998
21	46	71	19.237	5.002
22	47	72	18.231	3.996
23	48	73	17.231	2.996
24	49	74	16.235	2.000
25	50	75	15.237	1.002

TABLE II - THERMOCOUPLE HOOKUP SCHEDULES

T/C Hookup Schedule No.	T/C NO.
1	1-75
2	1-25 103, 105, 107, 108, 110 203, 205, 207, 208, 210 301-310 401-410 501-510
3A	1-25 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211-215 306-315 406-415 506-515
4	103, 105, 107, 108, 110, 111-120 203, 205, 207, 208, 210, 211-220 306-320 406-420 506-520
5D	1-25 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211-215 306-320 506-520
5E	6-25 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211-220 306-320 506-515 601-605
5F	16-25 41-50 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211-220 306-320 406-415 601-605

TABLE II - Continued

T/C Hookup Schedule No.	T/C NO.
5G	16-25 41-50 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211-220 306-320 506-515 601-605
5H	1-15 103, 105, 107, 108, 110, 111-115 306-320 406-420 506-520 601-605
6H	6-25 103, 105, 107, 108, 110, 111-120 203, 205, 207, 208, 210, 211-220 406-420 506-515
6I	16-25 41-50 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211-220 406-420 506-520
6J	1-25 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211-220 406-420 506-520
15D	1-25 103, 105, 107, 108, 110, 111-115 203, 205, 207, 208, 210, 211, 212, GAP TOTAL TEMP. PROBE, 214,215 306-320 506-520

OH-43 FLAT PLATE - LONGITUDINAL GAP

SPACE DIVISION
NORTH AMERICAN ROCKWELL CORPORATION

Prepared By:
Checked By:
Date:

Page No. of
Report No.
Model No.

1 Run No.	2 Re (x10⁶/Ft.)	3 Gap Width (in.)	4 Gap Depth (in.)	5 Gap Length (in.)	6 Gap Orient. Angle (deg.)	7 T/C Schedule	8 Module Position Schedule	9	10	11	12	13	14
								REMARKS					
1	0.5	.050	0	40	0	2	1	TUNNEL CONDITIONS UNSTEADY, WILL RE-RUN					
2	1.0	.050	0	40	0	2	1						
3	0.5	.050	0	40	0	2	1						
4	0.5	.050	0	40	0	2	1	L.E. 1					
5	1.0	.050	0	40	0	2	1	L.E. 1					
6	0.5	.050	.8	40	0	1	1						
7	1.0	.050	.8	40	0	1	1						
8	2.0	.050	.8	40	0	1	1						
9	0.5	.050	.8	40	0	4	1	L.E. 1					
10	1.0	.050	.8	40	0	4	1						
11	2.0	.050	.8	40	0	4	1						
12	2.0	.050	0	40	0	2	1						
13	2.0	.050	1.5	40	0	5D	1						
14	1.0	.050	1.5	40	0	5D	1						
15	0.5	.050	1.5	40	0	5D	1						
16	2.0	.050	.4	40	0	3A	1						
17	1.0	.050	.4	40	0	3A	1						
18	0.5	.050	.4	40	0	3A	1						
19	0.5	.050	.8	12 (FWD)	0	6H	2						
20	1.0	.050	.8	12 (FWD)	0	6H	2						
21	0.5	.100	.8	12 (FWD)	0	6H	2						
22	1.0	.100	.8	12 (FWD)	0	6H	2						
23	1.0	.100	.8	12 (FWD)	5	6I	2						
24	0.5	.100	.8	12 (FWD)	5	6I	2						
25	0.5	.050	.8	12 (FWD)	5	6I	2						

Table III Run Schedule

FORM M79-Y-6 REV 1-65

DH-43 FLAT PLATE - LONGITUDINAL GAP

SPACE DIVISION
NORTH AMERICAN ROCKWELL CORPORATION

Prepared By:
Checked By:
Date:

Page No. of
Report No.
Model No.

1 RUN No.	2 Re. (x10⁶/ft.)	3 GAP WIDTH (in.)	4 GAP DEPTH (in.)	5 GAP LENGTH (in.)	6 GAP ORIENT. ANGLE (deg.)	7 T/C SCHEDULE	8 MODULE POSITION SCHEDULE	9 REMARKS	10	11	12	13	14
26	1.0	.050	.8	12(FWD)	5	6I	2						
27	0.5	.050	.8	12(FWD)	10	6I	2						
28	1.0	.050	.8	12(FWD)	10	6I	2						
29	0.5	.100	.8	12(FWD)	10	6I	2						
30	1.0	.100	.8	12(FWD)	10	6I	2						
31	1.0	.100	.8	12(FWD)	15	6I	2						
32	0.5	.100	.8	12(FWD)	15	6I	2						
33	1.0	.050	.8	12(FWD)	15	6I	2						
34	0.5	.050	.8	12(FWD)	15	6I	2						
35	2.0	.050	.8	12(AFT)	15	6J	3						
36	2.0	.100	.8	12(AFT)	15	6J	3						
37	2.0	.100	.8	12(AFT)	10	6J	3						
38	2.0	.050	.8	12(AFT)	10	6J	3						
39	2.0	.050	.8	12(AFT)	5	6J	3						
40	2.0	.100	.8	12(AFT)	5	6J	3						
41	2.0	.100	.8	12(AFT)	0	6J	3						
42	2.0	.050	.8	12(AFT)	0	6J	3						
43	0.5	.100	.4	40	0	3A	1	L.E. 1					
44	1.0	.100	.4	40	0	3A	1	L.E. 1					
45	2.0	.100	.4	40	0	3A	1						
46	0.5	.100	.8	40	0	1	1						
47	1.0	.100	.8	40	0	1	1						
48	2.0	.100	.8	40	0	1	1						
49	2.0	.100	.8	40	0	4	1						
50	0.5	.100	.8	40	0	4	1						

Table III Run Schedule - Continued.

OH-43 FLAT PLATE - LONGITUDINAL GAP

SPACE DIVISION
NORTH AMERICAN ROCKWELL CORPORATION

Prepared By: | Page No. | of
Checked By: | Report No.
Date: | Model No.

1 RUN No.	2 Re (x10⁶/ft.)	3 GAP WIDTH (in.)	4 GAP DEPTH (in.)	5 GAP LENGTH (in.)	6 GAP ORIENT. ANGLE (deg.)	7 T/C SCHEDULE	8 MODULE POSITION SCHEDULE	9	10 REMARKS	11	12	13	14
51	1.0	.100	.8	40	0	4	1						
52	0.5	.025	.8	40	0	5D	1						
53	1.0	.025	.8	40	0	5D	1						
54	0.5	.100	1.5	40	0	15D	1	TOTAL	TEMP.	GAP PROBE IN			
55	1.0	.100	1.5	40	0	15D	1	"	"	" "	"		
56	2.0	.100	1.5	40	0	15D	1	"	"	" "	"		
57	1.0	.100	1.5	40	10	15D	1	"	"	" "	"		
58	2.0	.100	1.5	40	10	15D	1	"	"	" "	"		
59	1.0	.100	1.5	40	5	15D	1	"	"	" "	"		
60	1.0	.100	1.5	40	15	15D	1	"	"	"	"		
61	1.0	.050	1.5	40	15	15D	1	"	"	" "	"		
62	1.0	.050	1.5	40	10	15D	1	"	"	" "	"		
63	2.0	.050	1.5	40	10	15D	1	"	"	" "	"		
64	1.0	.050	1.5	40	5	15D	1	"	"	"			
65	2.0	.025	.8	40	0	5D	1						
66	0.5	.025	.4	40	0	3A	1						
67	1.0	.025	.4	40	0	3A	1						
68	2.0	.025	.4	40	0	3A	1						
69	2.0	.025	.2	40	0	3A	1						
70	0.5	.025	.2	40	0	3A	1						
71	1.0	.025	.2	40	0	3A	1						
72	0.5	.050	.2	40	0	3A	1						
73	1.0	.050	.2	40	0	3A	1						
74	2.0	.050	.2	40	0	3A	1						
75	0.5	.050	1.5	12(FWD)	0	5E	4	TOTAL	TEMP.	RAKE IN (MOD. 6)			

Table III Run Schedule - Continued

ORIGINAL PAGE IS
OF POOR QUALITY

OH-43 FLAT PLATE-LONGITUDINAL GAP

SPACE DIVISION
NORTH AMERICAN ROCKWELL CORPORATION

Prepared By:
Checked By:
Date:
Page No. of
Report No.
Model No.

1 Run No.	2 Re (x10⁶/ft)	3 Gap Width (in.)	4 Gap Depth (in.)	5 Gap Length (in.)	6 Gap Orient. Angle (deg)	7 T/C Schedule	8 Module Position Schedule	9 REMARKS	10	11	12	13	14
76	1.0	.050	1.5	12(FWD)	0	5E	4	TOTAL	TEMP.	RAKE	IN (MOD.6)		
77	2.0	.050	1.5	12(FWD)	0	5E	4						
78	0.5	.050	1.5	12(FWD)	5	5F	4						
79	1.0	.050	1.5	12(FWD)	5	5G	4						
80	1.0	.050	1.5	12(FWD)	10	5G	4						
81	0.5	.050	1.5	12(FWD)	10	5G	4						
82	0.5	.050	1.5	12(FWD)	15	5G	4						
83	1.0	.050	1.5	12(FWD)	15	5G	4						
84	1.0	.100	1.5	12(FWD)	15	5G	4						
85	0.5	.100	1.5	12(FWD)	15	5G	4						
86	0.5	.100	1.5	12(FWD)	0	5E	4						
87	1.0	.100	1.5	12(FWD)	0	5E	4						
88	2.0	.100	1.5	12(FWD)	0	5E	4						
89	0.5	.050	.8	12(FWD)	0	5E	4						
90	1.0	.050	.8	12(FWD)	0	5E	4						
91	2.0	.050	1.5	12(AFT)	0	5H	5						
92	2.0	.050	1.5	12(AFT)	15	5H	5						
93	2.0	.100	1.5	12(AFT)	15	5H	5						

Table III Run Schedule - Concluded.

FORM M78-Y-6 REV 1-68

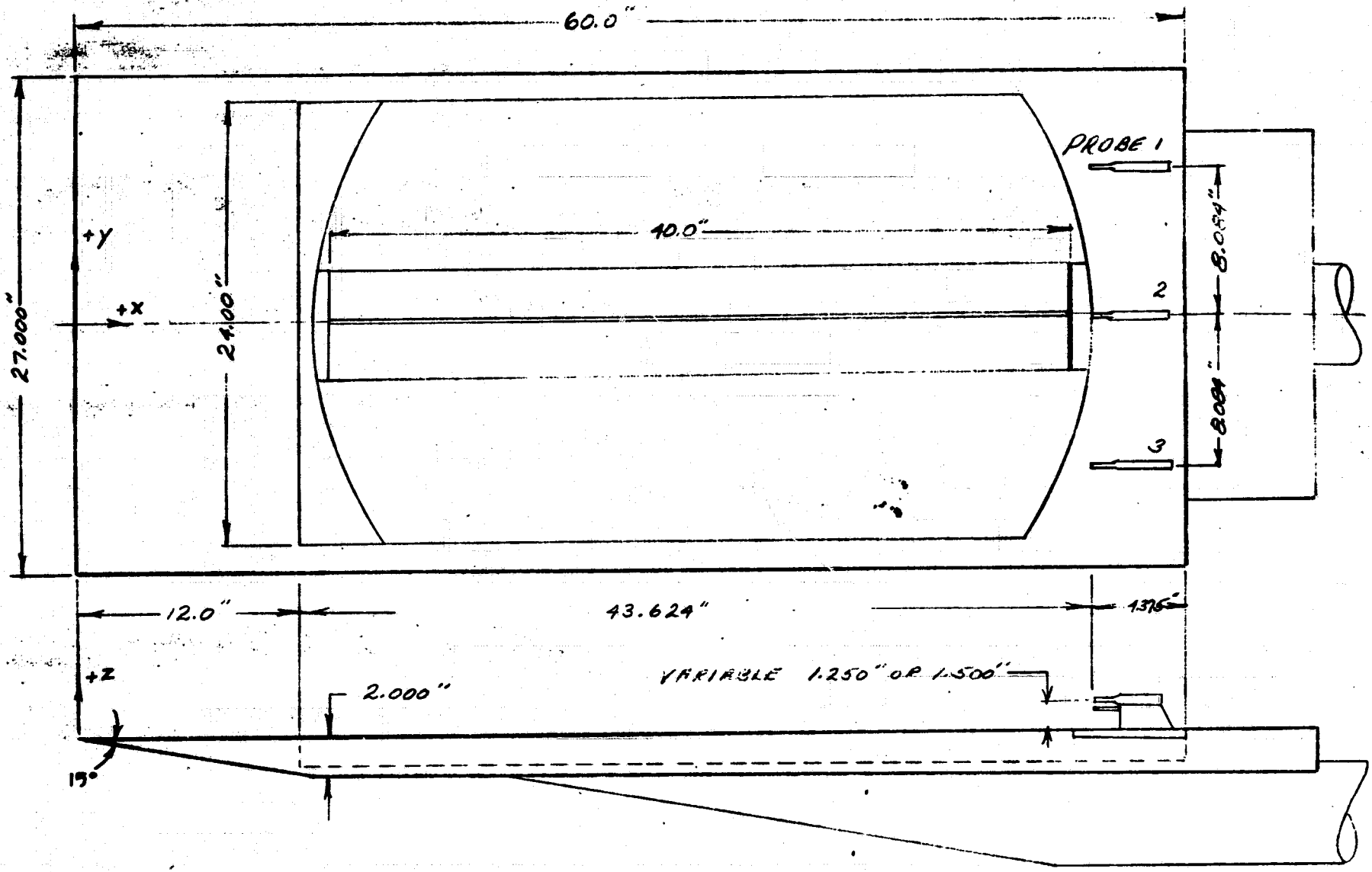


Figure 1. - Overall Model Dimensions and Total Temperature/Pitot Pressure Probes.

ORIGINAL PAGE IS
OF POOR QUALITY

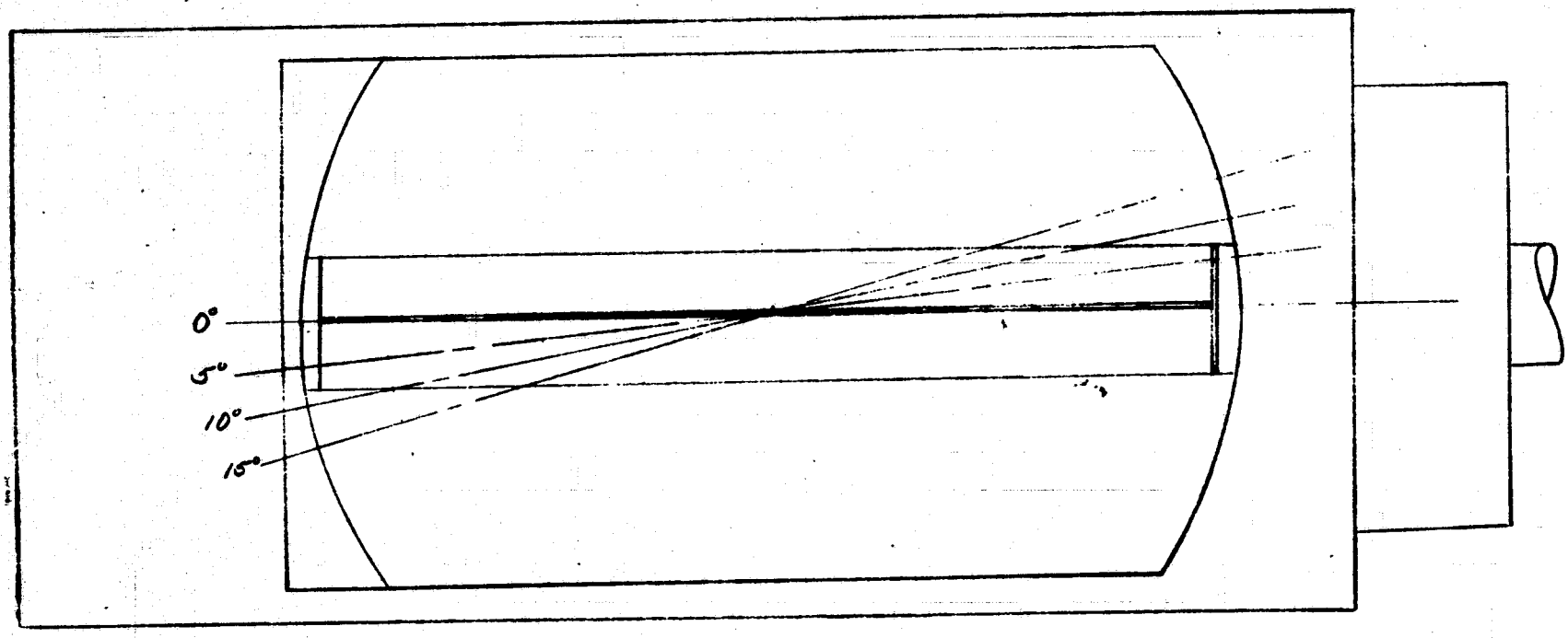


Figure 2. - Longitudinal Gap Incidence

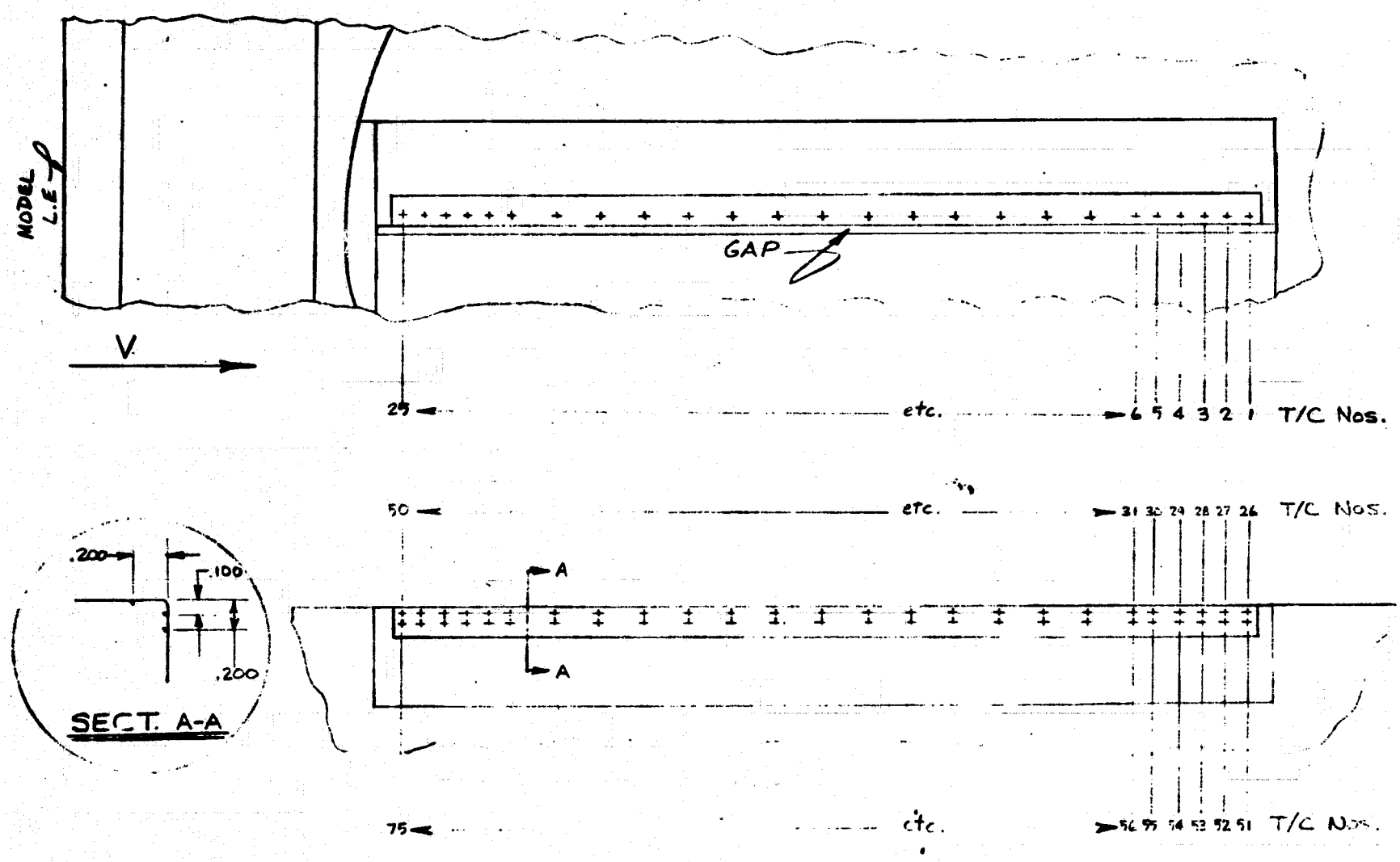


Figure 3. - Right Side Instrumentation.

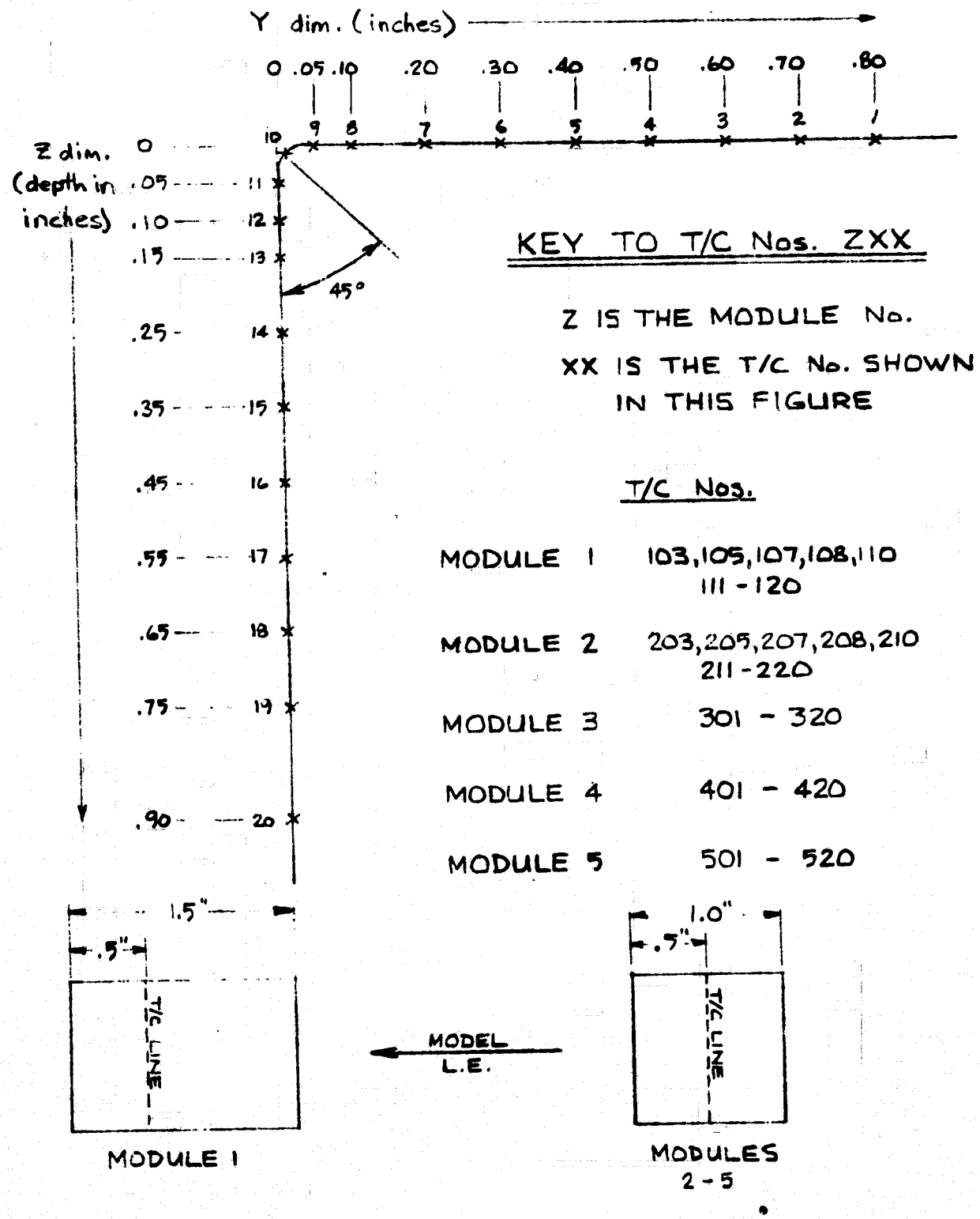


Figure 4. - Instrumented Modules.

MODULE POSITIONS

AND MODULE T/C LOCATIONS

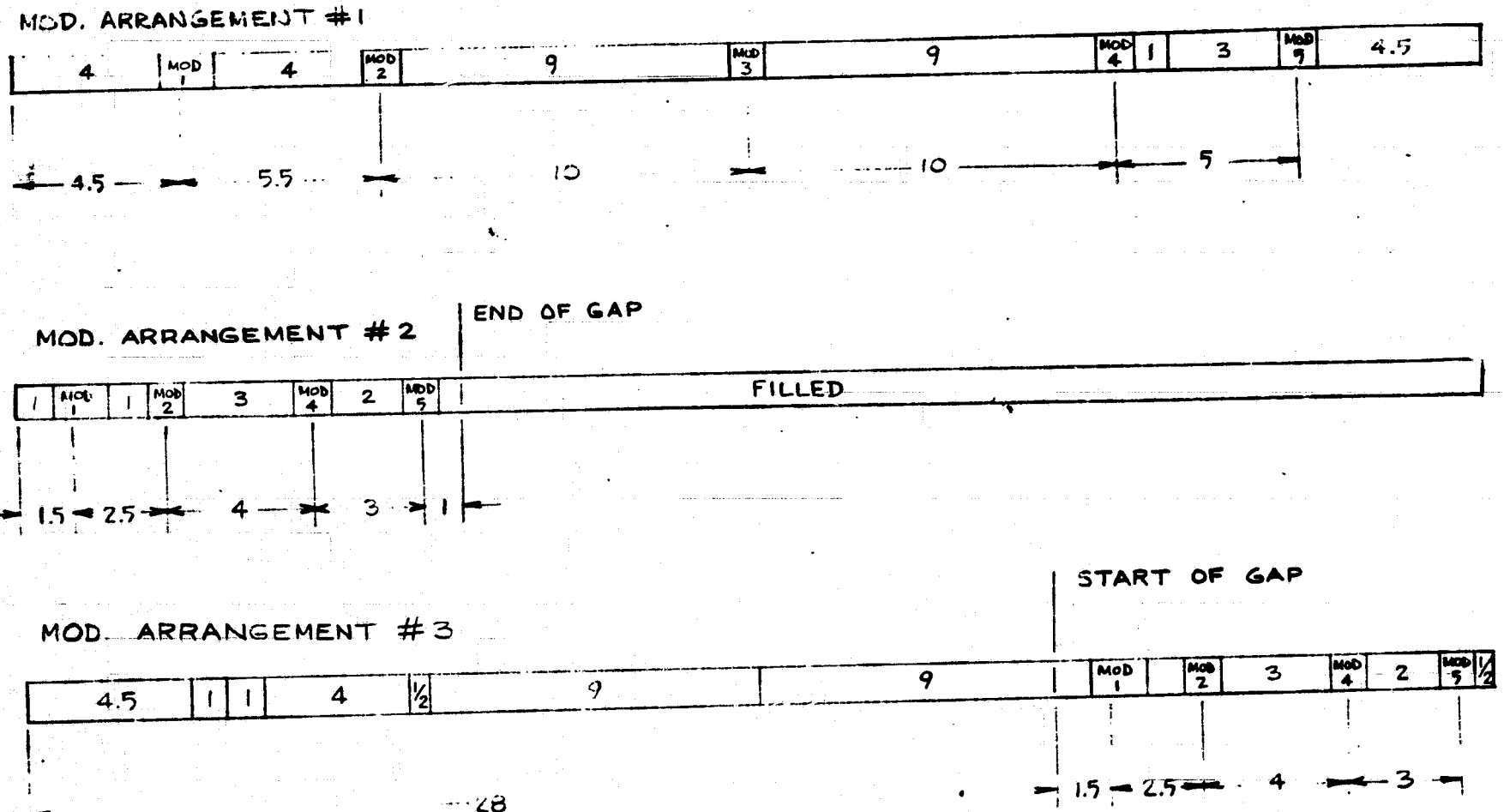
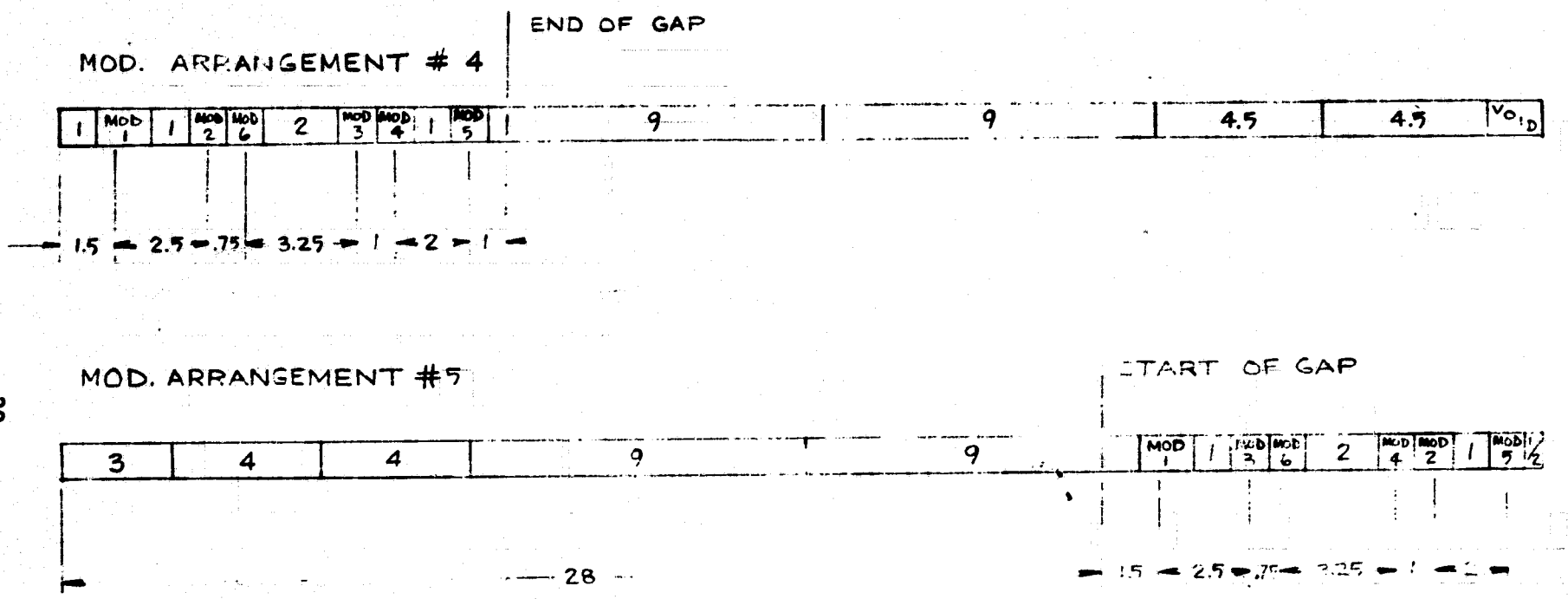


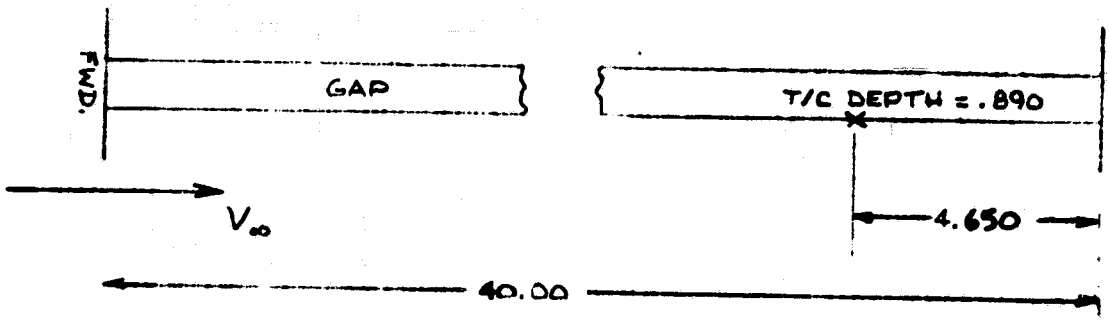
Figure 5. - Module Positions.

1 of 2

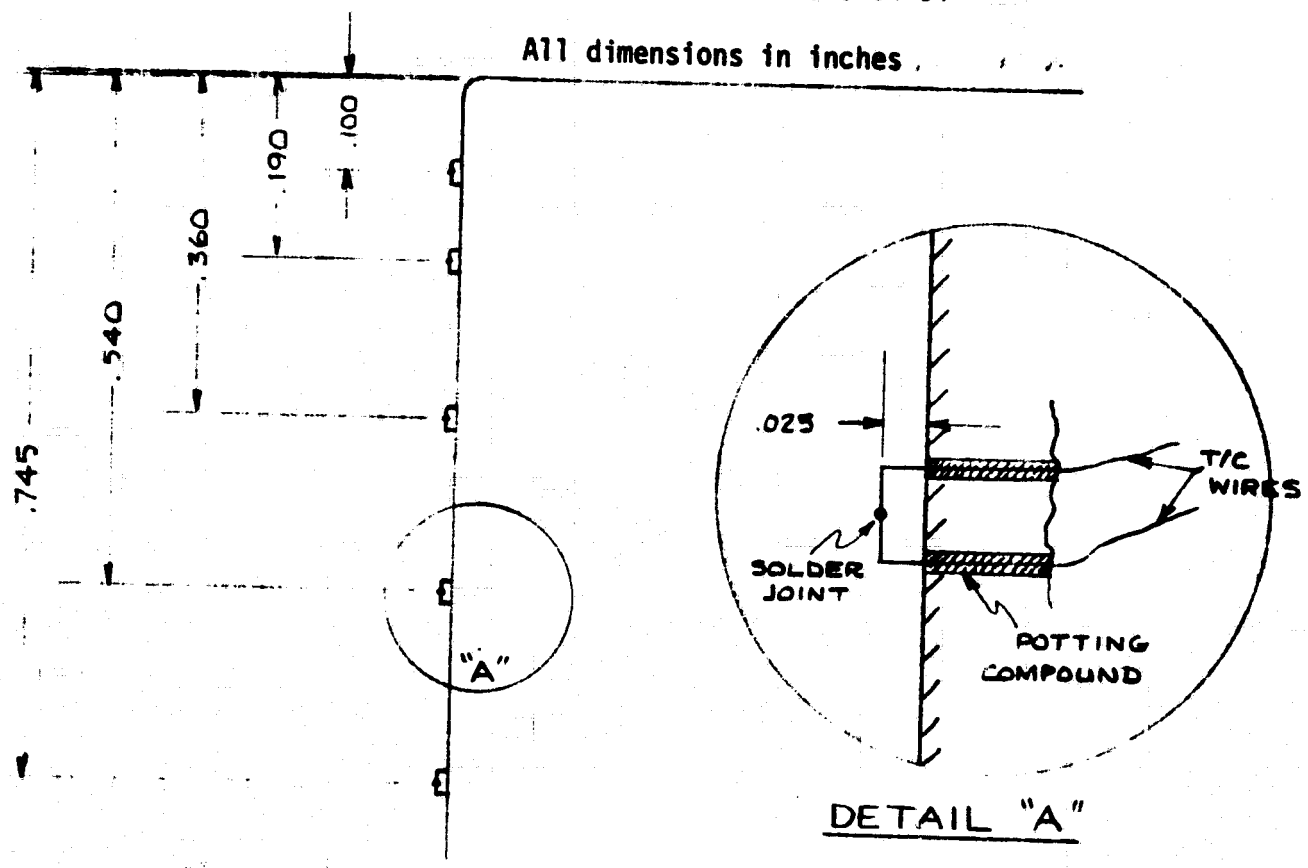


2 of 2

Figure 5. - Module Positions - Concluded.



a. - Total Temperature Probe--Runs 54-64

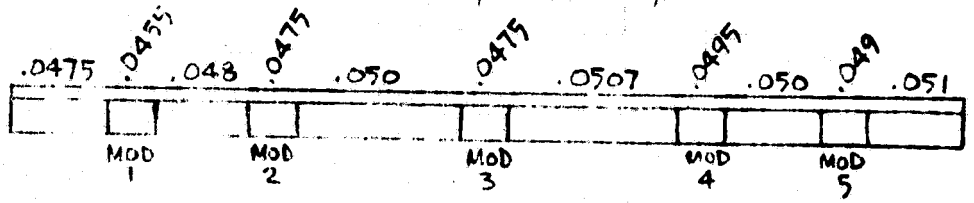


b. - Total Temperature Rake--Runs 75-93

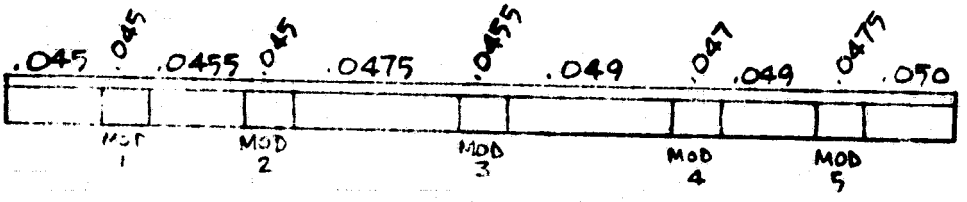
Figure 6. - Total Temperature Instrumentation

(SKETCHES NOT TO SCALE)

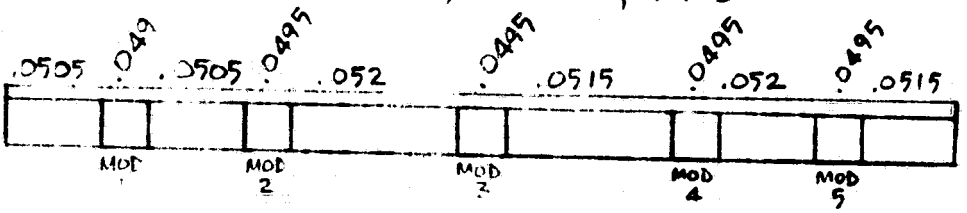
1) RUNS 6 - 11 .40 L, .050 W, .8 D



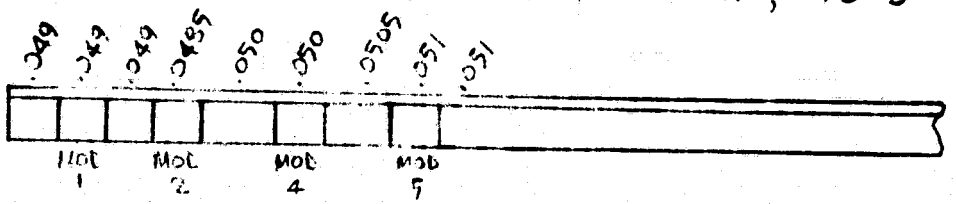
2) RUNS 12 - 15 40L, .050 W, 1.5 D



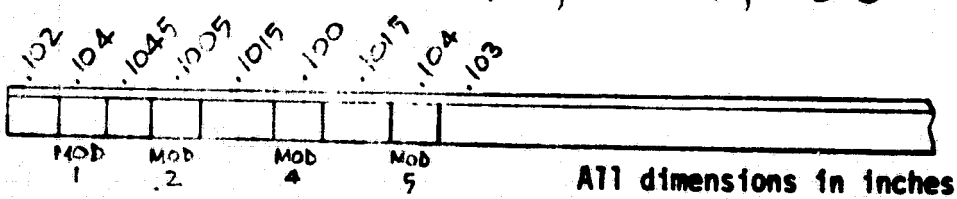
3) RUNS 16 - 18 40 L, .050 W, .4 D



4) RUNS 19 - 20 12(FWD) L, .050 W, .8 D



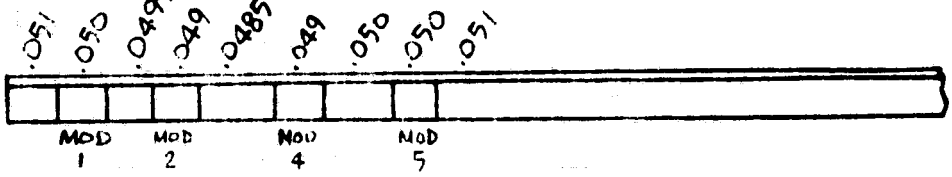
5) RUNS 21 - 24 12(FWD) L, .100 W, .8 D



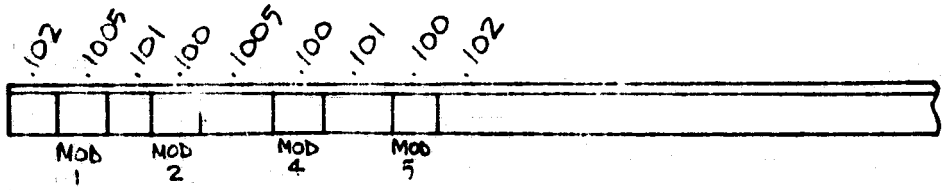
All dimensions in inches

Figure 7. - Measured Gap Widths

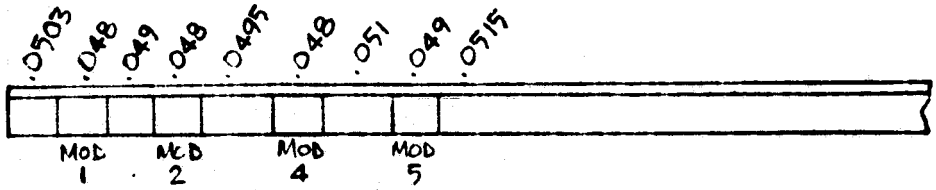
6) RUNS 25 - 28 12 (FWD) L, .050 W, .8 D



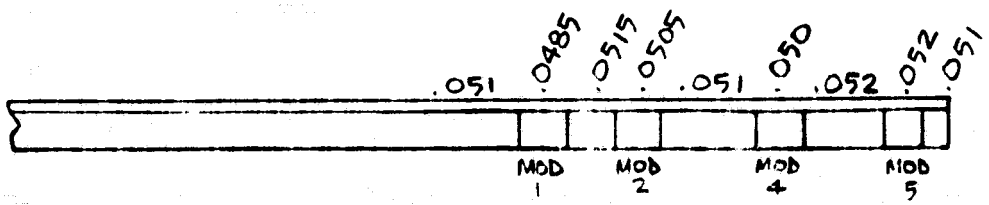
7) RUNS 29 - 32 12 (FWD) L, .100 W, .8 D



8) RUNS 33 - 34 12 (FWD) L, .050 W, .8 D



9) RUN 35 12 (AFT) L, .050 W, .8 D



10) RUNS 36 - 37 12 (AFT) L, .100 W, .8 D

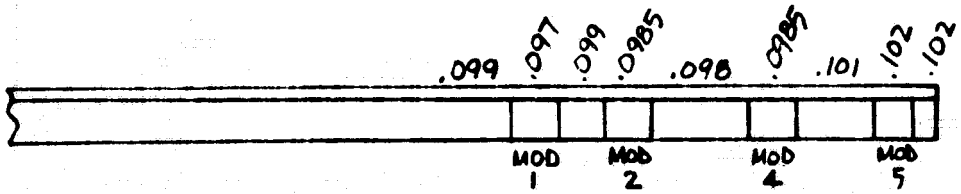
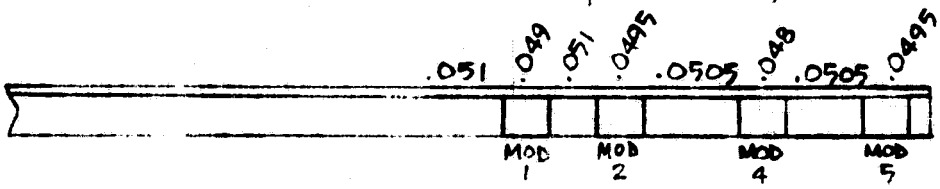
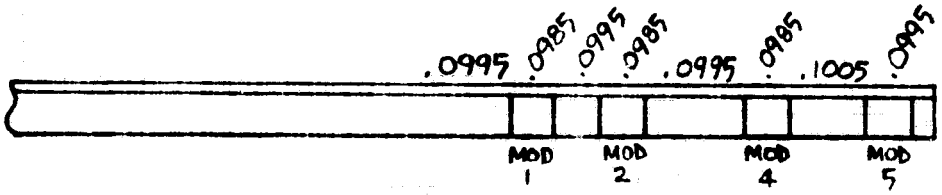


Figure 7. - Measured Gap Widths - Continued.

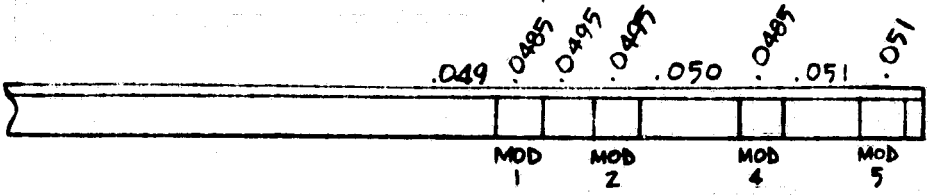
11) RUNS 38-39 12 (AFT) L, .050 W, .8 D



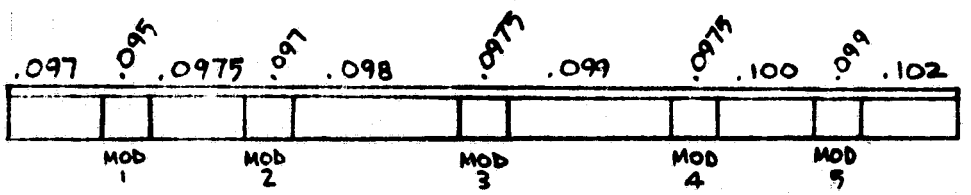
12) RUNS 40-41 12 (AFT) L, .100 W, .8 D



13) RUN 42 12 (AFT) L, .050 W, .8 D



14) RUNS 43-45 40 L, .100 W, .4 D



15) RUNS 46-51 40L, .100W, .8 D

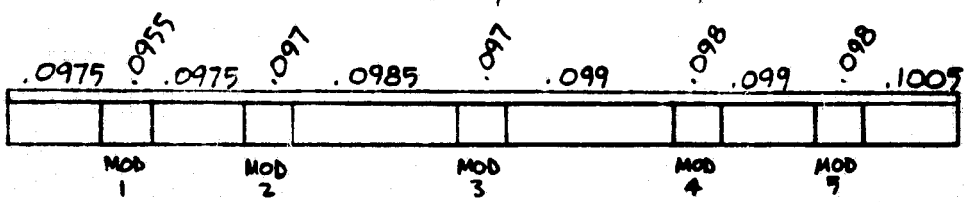
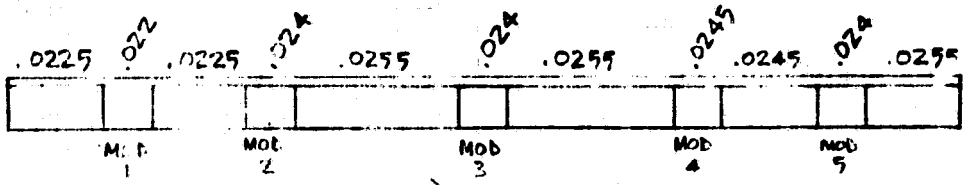
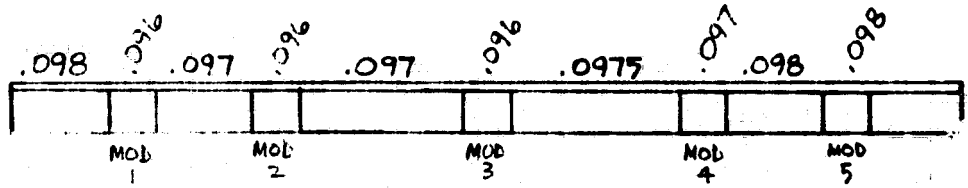


Figure 7. - Measured Gap Widths - Continued.

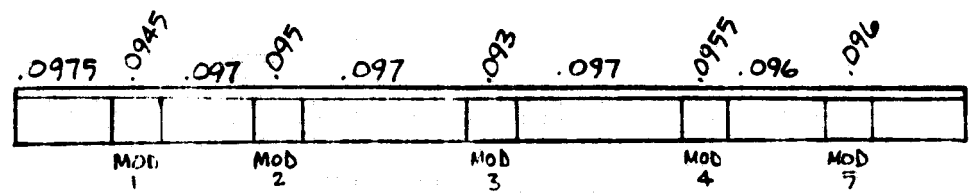
16) RUNS 52-53 40 L, .025 W, .8 D



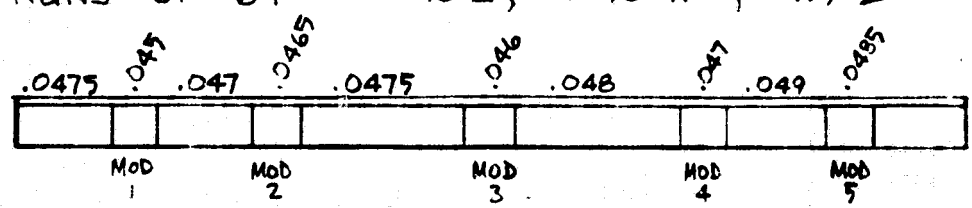
17) RUNS 54-56 40 L, .100 W, 1.5 D



18) RUNS 57-60 40L, .100W, 1.5 D



19) RUNS 61-64 40L, .050 W, 1.5 D



20) RUN 65 40 L, .025 W, .8 D

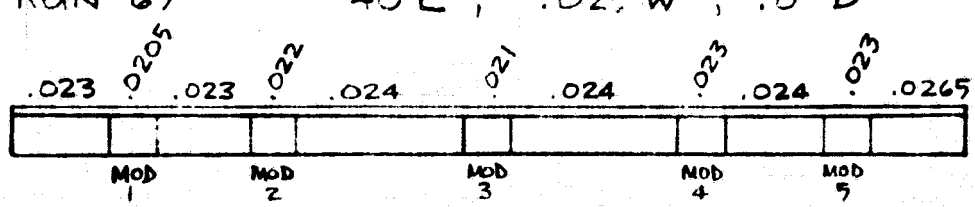
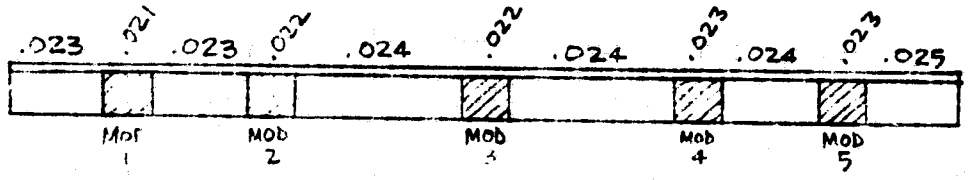
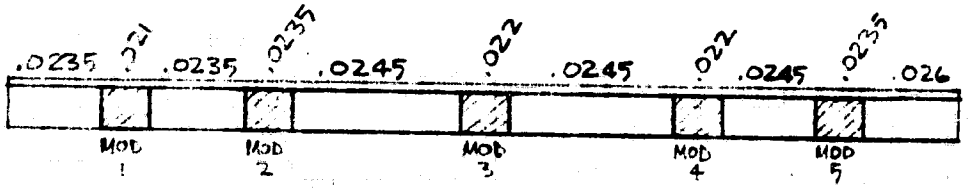


Figure 7. - Measured Gap Widths - Continued.

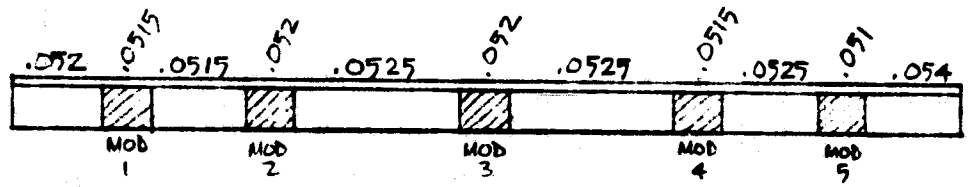
21) RUNS 66 - 68 40L, .025 W, .4 D



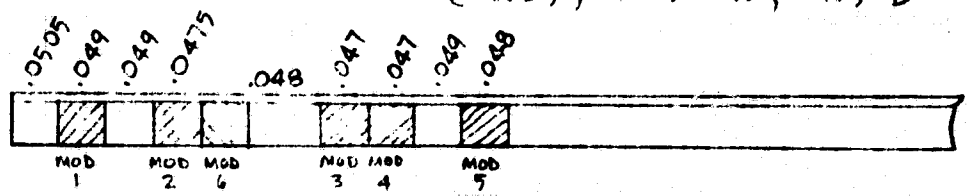
22) RUNS 69 - 71 40L, .025 W, .2 D



23) RUNS 72 - 74 40L, .050 W, .2 D



24) RUNS 75 - 83 12 (FWD), .050 W, 1.5 D



25) RUNS 84 - 88 12 (FWD), .100 W, 1.5 D

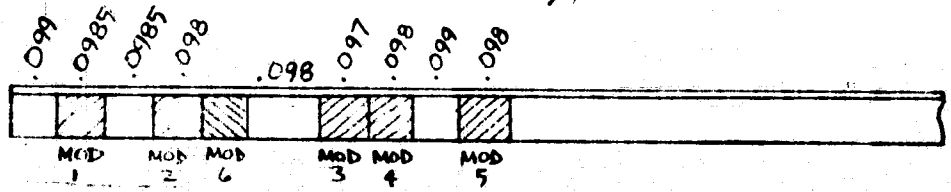
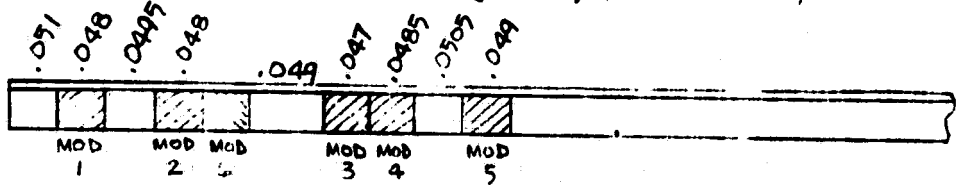
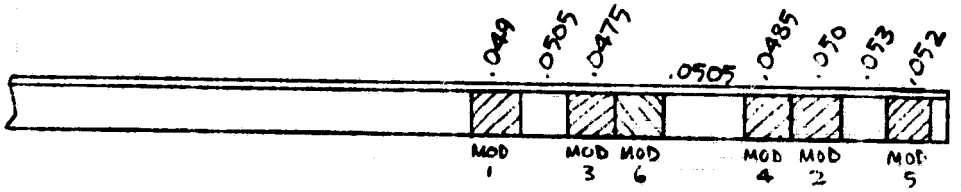


Figure 7. - Measured Gap Widths - Continued.

26) RUNS 89 - 90 12 (FWD), .050 W, .8 D



27) RUNS 91 - 92 12 (AFT), .050W, 1.5 D



28) RUN 93 12 (AFT), .100 W, 1.5 D

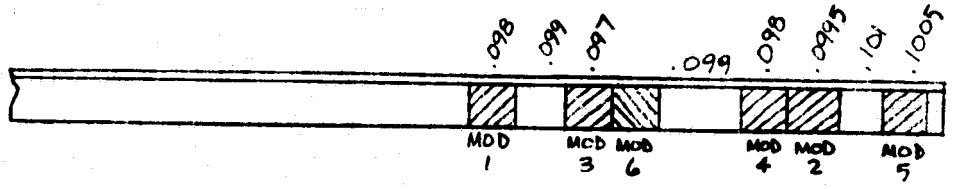


Figure 7. - Measured Gap Widths - Concluded.

a. Installation of 15-0 Flat Plate Model in the NASA-Ames 3.5-Foot Hypersonic Wind Tunnel

Figure 8. - Model photographs.

ORIGINAL PAGE IS
OF POOR QUALITY

b. Flat Plate Model with 15° Gap Incidence

Figure 8. - Concluded.

ORIGINAL PAGE IS
OF POOR QUALITY

APPENDIX

TABULATED DATA

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 1 FRAME 26 TO 81 CONSTANT SET 211

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10 0.5053E 06	65.35	1840.96	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	66.265	1842.069	0.087	0.096	597.794	-0.277	17.6066
0.070	66.265	1841.623	0.084	0.096	597.794	-0.277	17.6066
0.140	65.350	1841.181	0.079	0.113	597.794	-0.277	17.6106
0.210	65.168	1840.957	0.079	0.238	597.794	-0.303	17.6147
0.280	64.436	1840.726	0.087	0.716	597.794	-0.303	17.6106
0.350	64.253	1841.288	0.224	1.442	615.331	-0.290	17.6106
0.420	64.619	1840.840	0.820	1.945	772.847	-0.277	17.6066
0.490	64.802	1840.960	1.717	2.308	1073.496	-0.277	17.6147
0.560	64.802	1840.737	2.389	2.669	1363.215	-0.316	17.6066
0.630	65.168	1840.845	2.683	2.895	1562.652	-0.316	17.6106
0.700	65.899	1841.407	2.868	3.024	1656.355	-0.290	17.6106
0.770	66.448	1840.954	3.048	2.998	1684.262	-0.277	17.6066
0.840	66.082	1841.069	3.159	2.780	1701.638	-0.303	34.8946
0.910	65.350	1840.957	3.170	2.613	1720.345	-0.316	34.9188
0.980	65.168	1840.504	3.117	2.551	1732.783	-0.316	34.9269
1.050	64.985	1841.518	3.061	2.512	1735.543	-0.303	34.9269
1.120	64.802	1840.957	3.054	2.473	1725.877	-0.290	34.9269
1.190	64.436	1840.963	3.072	2.479	1727.949	-0.303	34.9309
1.260	64.436	1840.288	3.075	2.507	1738.991	-0.316	34.9269
1.330	64.436	1839.947	3.075	2.554	1753.451	-0.316	34.9269
1.400	65.350	1840.962	3.101	2.579	1774.041	-0.303	34.9309
1.470	66.082	1840.288	3.096	2.588	1782.939	-0.277	34.9229
1.540	66.265	1840.295	3.091	2.593	1772.671	-0.303	34.9269
1.610	66.082	1839.960	3.080	2.610	1769.244	-0.316	34.9269
1.680	65.350	1839.733	3.080	2.579	1765.128	-0.316	34.9269
1.750	65.350	1840.631	3.093	2.554	1766.500	-0.303	34.9309
1.820	65.350	1840.296	3.101	2.549	1778.834	-0.303	34.9269
1.890	64.802	1839.849	3.080	2.563	1791.140	-0.303	34.9309
1.960	64.253	1839.629	3.067	2.596	1798.646	-0.316	34.9309
2.030	64.253	1838.723	3.046	2.610	1794.553	-0.316	34.9269
2.100	64.802	1839.621	3.054	2.618	1790.457	-0.303	34.9309
2.170	65.350	1838.835	3.080	2.652	1796.600	-0.303	34.9269
2.240	65.350	1838.952	3.114	2.680	1811.586	-0.303	34.9309
2.310	66.082	1838.615	3.141	2.725	1828.563	-0.316	34.9269
2.380	66.082	1837.379	3.141	2.755	1844.809	-0.316	34.9269
2.450	66.082	1838.950	3.106	2.744	1854.937	-0.303	34.9309
2.520	65.899	1838.728	3.067	2.680	1845.485	-0.290	34.9269
2.590	65.350	1838.502	3.040	2.624	1825.851	-0.290	34.9309
2.660	64.802	1838.503	3.027	2.591	1813.626	-0.316	34.9269
2.730	64.253	1838.055	3.027	2.568	1808.184	-0.316	34.9269
2.800	64.436	1839.401	3.027	2.568	1808.184	-0.316	34.9309
2.870	64.985	1839.175	3.038	2.596	1809.545	-0.290	34.9229
2.940	65.168	1838.727	3.054	2.607	1807.503	-0.290	34.9269
3.010	65.350	1838.847	3.080	2.638	1814.306	-0.316	34.9309
3.080	65.350	1838.389	3.098	2.641	1821.779	-0.316	34.9269
3.150	66.265	1839.401	3.125	2.660	1835.339	-0.303	34.9350
3.220	66.630	1839.175	3.120	2.641	1842.105	-0.290	34.9269
3.290	66.082	1839.298	3.091	2.616	1838.046	-0.303	34.9269
3.360	65.350	1839.412	3.061	2.624	1831.275	-0.316	34.9269
3.430	64.802	1838.615	3.027	2.624	1825.172	-0.316	34.9229
3.500	64.436	1840.081	3.019	2.624	1821.779	-0.316	34.9309
3.570	64.802	1839.513	3.019	2.613	1820.421	-0.303	34.9229
3.640	64.619	1840.086	3.027	2.638	1820.421	-0.290	34.9309
3.710	64.802	1840.201	3.054	2.652	1825.172	-0.316	34.9269
3.780	65.168	1839.746	3.096	2.660	1833.307	-0.316	34.9269
3.850	66.082	1840.756	3.149	2.697	1853.587	-0.316	34.9309

PRECEDING PAGE BLANK NOT FILMED

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6578E 06	5.0529E 05	0.305	4.45	1022.8	0.10714E 07	0.3048	1.000	RUN NO.	1
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.0529E 05	5.0529E 05	1.000	65.35	1841.0	460.71	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.278	0.0424	0.0424	0.0486	0.0514	34	208	0.280	0.0466	0.0466	0.0534	0.0565
2	2	0.318	0.0000	0.0000	0.0000	0.0000	35	210	0.279	0.0324	0.0324	0.0371	0.0392
3	3	0.278	0.0434	0.0434	0.0498	0.0526	36	301	0.279	0.0483	0.0483	0.0553	0.0585
4	4	0.278	0.0445	0.0445	0.0510	0.0539	37	302	0.279	0.0516	0.0516	0.0592	0.0626
5	5	0.278	0.0432	0.0432	0.0495	0.0523	38	303	0.280	0.0521	0.0521	0.0597	0.0631
6	6	0.278	0.0440	0.0440	0.0504	0.0533	39	304	0.280	0.0508	0.0508	0.0582	0.0616
7	7	0.278	0.0450	0.0450	0.0515	0.0545	40	305	0.280	0.0483	0.0483	0.0554	0.0586
8	8	0.278	0.0451	0.0451	0.0517	0.0546	41	306	0.279	0.0474	0.0474	0.0544	0.0575
9	9	0.278	0.0467	0.0467	0.0535	0.0566	42	307	0.279	0.0445	0.0445	0.0510	0.0539
10	10	0.278	0.0484	0.0484	0.0555	0.0587	43	308	0.278	0.0362	0.0362	0.0415	0.0438
11	11	0.278	0.0485	0.0485	0.0556	0.0587	44	309	0.278	0.0296	0.0296	0.0339	0.0358
12	12	0.278	0.0498	0.0498	0.0571	0.0604	45	310	0.278	0.0242	0.0242	0.0277	0.0293
13	13	0.279	0.0495	0.0495	0.0568	0.0600	46	401	0.277	0.0397	0.0397	0.0455	0.0481
14	14	0.279	0.0530	0.0530	0.0608	0.0642	47	402	0.278	0.0447	0.0447	0.0512	0.0541
15	15	0.279	0.0523	0.0523	0.0599	0.0634	48	403	0.278	0.0452	0.0452	0.0518	0.0548
16	16	0.279	0.0538	0.0538	0.0617	0.0652	49	404	0.279	0.0469	0.0469	0.0537	0.0568
17	17	0.279	0.0572	0.0572	0.0656	0.0693	50	405	0.278	0.0448	0.0448	0.0513	0.0542
18	18	0.279	0.0601	0.0601	0.0689	0.0729	51	406	0.278	0.0436	0.0436	0.0500	0.0528
19	19	0.279	0.0629	0.0629	0.0721	0.0763	52	407	0.278	0.0406	0.0406	0.0466	0.0492
20	20	0.279	0.0642	0.0642	0.0736	0.0778	53	408	0.277	0.0312	0.0312	0.0357	0.0378
21	21	0.280	0.0663	0.0663	0.0761	0.0804	54	409	0.278	0.0256	0.0256	0.0294	0.0311
22	22	0.279	0.0690	0.0690	0.0791	0.0837	55	410	0.277	0.0214	0.0214	0.0245	0.0259
23	23	0.279	0.0723	0.0723	0.0829	0.0876	56	501	0.277	0.0393	0.0393	0.0450	0.0475
24	24	0.279	0.0763	0.0763	0.0875	0.0925	57	502	0.278	0.0439	0.0439	0.0503	0.0531
25	25	0.279	0.0783	0.0783	0.0898	0.0949	58	503	0.278	0.0439	0.0439	0.0503	0.0532
26	103	0.282	0.0724	0.0724	0.0830	0.0878	59	504	0.278	0.0437	0.0437	0.0501	0.0529
27	105	0.283	0.0710	0.0710	0.0815	0.0862	60	505	0.278	0.0415	0.0415	0.0476	0.0503
28	107	0.282	0.0637	0.0637	0.0731	0.0773	61	506	0.278	0.0418	0.0418	0.0479	0.0507
29	108	0.281	0.0500	0.0500	0.0573	0.0606	62	507	0.278	0.0377	0.0377	0.0432	0.0457
30	110	0.280	0.0325	0.0325	0.0373	0.0394	63	508	0.278	0.0309	0.0309	0.0354	0.0375
31	203	0.281	0.0624	0.0624	0.0715	0.0756	64	509	0.277	0.0243	0.0243	0.0279	0.0295
32	205	0.281	0.0631	0.0631	0.0723	0.0765	65	510	0.277	0.0202	0.0202	0.0232	0.0245
33	207	0.281	0.0570	0.0570	0.0653	0.0691							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6578E 06	5.0529E 05	0.305	4.45	1022.8	0.10714E 07	0.3048	1.000	RUN NO.	1
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.0529E 05	5.0529E 05	1.000	65.35	1841.0	460.71	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	GS(W/CM2)	GS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	296.1	533.0	0.301	0.265	7.093	6.250	2.2909E-04	2.4215E-04	-0.096
2	2	338.7	609.7	0.000	0.000	6.680	5.886	7.8864E-15	8.3683E-15	*******
3	3	296.4	533.5	0.308	0.271	7.091	6.248	2.3447E-04	2.4785E-04	-0.089
4	4	296.3	533.4	0.316	0.278	7.091	6.248	2.4033E-04	2.5404E-04	-0.079
5	5	296.6	533.8	0.306	0.270	7.089	6.246	2.3301E-04	2.4630E-04	-0.063
6	6	296.3	533.4	0.312	0.275	7.091	6.248	2.3741E-04	2.5095E-04	-0.075
7	7	296.5	533.6	0.319	0.281	7.090	6.247	2.4269E-04	2.5653E-04	-0.057
8	8	296.8	534.3	0.320	0.282	7.086	6.244	2.4342E-04	2.5732E-04	-0.027
9	9	296.7	534.0	0.331	0.292	7.088	6.245	2.5209E-04	2.6647E-04	-0.022
10	10	296.7	534.0	0.343	0.303	7.088	6.245	2.6149E-04	2.7641E-04	-0.002
11	11	296.8	534.2	0.344	0.303	7.087	6.244	2.6173E-04	2.7667E-04	0.003
12	12	296.8	534.3	0.353	0.311	7.086	6.244	2.6908E-04	2.8444E-04	0.030
13	13	297.4	535.3	0.351	0.309	7.081	6.239	2.6735E-04	2.8262E-04	0.046
14	14	297.3	535.1	0.375	0.331	7.082	6.240	2.8625E-04	3.0259E-04	0.080
15	15	297.3	535.2	0.370	0.326	7.082	6.240	2.8228E-04	2.9840E-04	0.087
16	16	297.5	535.4	0.381	0.336	7.080	6.239	2.9057E-04	3.0717E-04	0.095
17	17	297.5	535.5	0.405	0.357	7.080	6.238	3.0893E-04	3.2658E-04	0.112
18	18	298.1	536.5	0.425	0.375	7.074	6.233	3.2468E-04	3.4324E-04	0.136
19	19	297.8	536.0	0.445	0.392	7.077	6.236	3.3977E-04	3.5919E-04	0.166
20	20	297.9	536.3	0.454	0.400	7.075	6.234	3.4671E-04	3.6653E-04	0.172
21	21	298.5	537.3	0.469	0.413	7.070	6.230	3.5818E-04	3.7867E-04	0.168
22	22	298.1	536.6	0.488	0.430	7.074	6.233	3.7273E-04	3.9405E-04	0.183
23	23	298.0	536.4	0.512	0.451	7.075	6.234	3.9036E-04	4.1268E-04	0.194
24	24	298.0	536.4	0.540	0.476	7.075	6.234	4.1199E-04	4.3555E-04	0.198
25	25	297.6	535.6	0.554	0.488	7.079	6.238	4.2278E-04	4.4694E-04	0.204
26	103	300.9	541.6	0.510	0.449	7.047	6.209	3.9083E-04	4.1328E-04	0.204
27	105	301.4	542.5	0.500	0.441	7.042	6.205	3.8360E-04	4.0565E-04	0.199
28	107	300.7	541.3	0.449	0.396	7.048	6.210	3.4422E-04	3.6399E-04	0.154
29	108	299.9	539.9	0.353	0.311	7.056	6.217	2.6994E-04	2.8543E-04	0.165
30	110	298.9	538.1	0.230	0.202	7.066	6.226	1.7559E-04	1.8565E-04	0.481
31	203	299.3	538.8	0.440	0.388	7.062	6.222	3.3675E-04	3.5604E-04	0.127
32	205	299.5	539.1	0.445	0.392	7.060	6.221	3.4065E-04	3.6018E-04	0.140
33	207	299.3	538.7	0.402	0.355	7.062	6.223	3.0771E-04	3.2534E-04	0.092
34	208	298.7	537.7	0.329	0.290	7.068	6.228	2.5162E-04	2.6603E-04	0.010
35	210	297.9	536.3	0.229	0.202	7.075	6.234	1.7481E-04	1.8481E-04	0.253
36	301	297.3	535.1	0.342	0.301	7.082	6.240	2.6052E-04	2.7540E-04	-0.040
37	302	297.8	536.0	0.365	0.322	7.077	6.236	2.7878E-04	2.9471E-04	0.026
38	303	298.3	536.9	0.368	0.324	7.072	6.232	2.8111E-04	2.9719E-04	0.014
39	304	298.5	537.3	0.359	0.316	7.070	6.230	2.7425E-04	2.8994E-04	0.006
40	305	298.5	537.2	0.342	0.301	7.070	6.230	2.6103E-04	2.7596E-04	-0.008
41	306	297.9	536.1	0.336	0.296	7.076	6.235	2.5615E-04	2.7079E-04	0.007
42	307	297.5	535.5	0.315	0.277	7.080	6.238	2.4012E-04	2.5384E-04	-0.030
43	308	297.0	534.7	0.256	0.226	7.084	6.242	1.9530E-04	2.0645E-04	-0.129
44	309	296.8	534.2	0.210	0.185	7.087	6.244	1.5966E-04	1.6877E-04	0.024
45	310	296.4	533.4	0.172	0.151	7.091	6.248	1.3058E-04	1.3803E-04	0.161
46	401	296.0	532.8	0.282	0.248	7.095	6.251	2.1418E-04	2.2639E-04	-0.197
47	402	296.5	533.7	0.317	0.279	7.090	6.247	2.4105E-04	2.5480E-04	-0.093
48	403	296.9	534.4	0.321	0.282	7.086	6.244	2.4423E-04	2.5817E-04	-0.079
49	404	297.3	535.2	0.332	0.292	7.081	6.240	2.5294E-04	2.6739E-04	0.233
50	405	297.1	534.7	0.317	0.279	7.084	6.242	2.4164E-04	2.5544E-04	-0.093
51	406	296.9	534.4	0.309	0.272	7.086	6.243	2.3537E-04	2.4880E-04	-0.099
52	407	296.7	534.1	0.288	0.254	7.087	6.245	2.1937E-04	2.3189E-04	-0.150
53	408	295.9	532.6	0.221	0.195	7.096	6.252	1.6829E-04	1.7788E-04	-0.167
54	409	296.1	532.9	0.182	0.160	7.094	6.251	1.3844E-04	1.4633E-04	-0.020
55	410	296.0	532.7	0.152	0.134	7.095	6.251	1.1531E-04	1.2188E-04	0.259
56	501	295.7	532.3	0.279	0.246	7.097	6.254	2.1192E-04	2.2399E-04	-0.201
57	502	296.0	532.9	0.311	0.274	7.094	6.251	2.3677E-04	2.5026E-04	-0.107
58	503	296.5	533.6	0.311	0.274	7.090	6.247	2.3697E-04	2.5048E-04	-0.106
59	504	296.7	534.0	0.310	0.273	7.088	6.245	2.3587E-04	2.4933E-04	-0.105
60	505	296.9	534.5	0.294	0.259	7.085	6.243	2.2408E-04	2.3688E-04	-0.125
61	506	296.7	534.1	0.296	0.261	7.087	6.245	2.2581E-04	2.3869E-04	-0.106
62	507	296.5	533.8	0.267	0.236	7.089	6.246	2.0368E-04	2.1530E-04	-0.172
63	508	296.1	533.0	0.219	0.193	7.093	6.250	1.6694E-04	1.7646E-04	-0.191
64	509	295.8	532.4	0.173	0.152	7.096	6.253	1.3135E-04	1.3883E-04	0.027
65	510	295.4	531.7	0.144	0.127	7.100	6.256	1.0916E-04	1.1537E-04	0.245

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2391E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	2.866	3.149	2.697
PI2/PT1	4.385E-02	4.818E-02	4.126E-02
TEMP(DEG R)	1841.4	1853.6	1861.7
TT2/TT1	1.0003	1.0069	1.0113

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 162 RUN NO. 2 FRAME 27 TO 81 CONSTANT SET 211

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1011E 07	153.94	2028.56	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	154.484	2025.972	0.157	0.132	657.579	-0.289	17.6071
0.070	154.484	2027.537	0.151	0.144	656.590	-0.276	17.6071
0.140	154.118	2027.108	0.149	0.255	656.590	-0.315	17.6071
0.210	154.118	2028.629	0.154	0.912	656.590	-0.315	17.6071
0.280	154.118	2027.645	0.231	2.430	665.462	-0.315	17.6111
0.350	154.667	2028.299	1.003	4.023	771.035	-0.289	17.6071
0.420	154.484	2027.975	3.074	5.427	1090.562	-0.315	17.6071
0.490	154.118	2028.197	5.312	6.754	1486.292	-0.328	17.6071
0.560	154.118	2029.067	6.637	7.520	1776.096	-0.328	17.6071
0.630	154.301	2030.802	7.404	7.797	1906.604	-0.315	17.6071
0.700	154.667	2030.800	7.827	7.814	1932.568	-0.289	17.6071
0.770	154.667	2029.825	7.986	7.646	1915.274	-0.289	34.9118
0.840	154.301	2029.175	8.025	7.422	1902.597	-0.315	34.9118
0.910	153.935	2028.959	8.010	7.341	1908.606	-0.341	34.9199
0.980	154.301	2030.584	7.986	7.425	1931.240	-0.341	34.9239
1.050	154.484	2030.692	7.959	7.537	1949.139	-0.315	34.9199
1.120	154.484	2029.933	7.943	7.641	1955.752	-0.315	34.9239
1.190	154.301	2028.088	7.941	7.733	1962.355	-0.328	34.9239
1.260	154.301	2027.219	7.959	7.803	1975.536	-0.341	34.9199
1.330	154.484	2029.172	7.970	7.859	1991.960	-0.315	34.9279
1.400	154.667	2030.366	7.959	7.889	1995.239	-0.315	34.9239
1.470	154.667	2029.824	7.951	7.900	1992.616	-0.315	34.9239
1.540	154.484	2031.020	7.959	7.928	1994.583	-0.328	34.9199
1.610	154.484	2028.522	7.967	7.954	2001.788	-0.328	34.9199
1.680	154.484	2030.909	7.970	7.984	2014.209	-0.328	34.9279
1.750	154.667	2031.126	7.959	7.982	2019.429	-0.315	34.9239
1.820	154.667	2030.042	7.957	7.956	2018.776	-0.315	34.9279
1.890	154.301	2026.782	7.951	7.962	2014.861	-0.315	34.9199
1.960	154.484	2023.948	7.946	7.993	2014.861	-0.328	34.9239
2.030	154.301	2026.123	7.941	8.037	2019.429	-0.328	34.9279
2.100	154.667	2029.280	7.946	8.068	2021.385	-0.289	34.9239
2.170	154.484	2028.412	7.951	8.068	2018.124	-0.315	34.9239
2.240	154.484	2026.892	7.954	8.068	2012.250	-0.328	34.9199
2.310	154.301	2026.130	7.957	8.079	2012.903	-0.341	34.9239
2.380	154.484	2026.779	7.954	8.091	2014.861	-0.315	34.9320
2.450	154.850	2027.322	7.954	8.088	2023.340	-0.315	34.9199
2.520	154.850	2028.741	7.951	8.091	2025.946	-0.315	34.9239
2.590	154.484	2027.327	7.946	8.096	2020.733	-0.328	34.9239
2.660	154.484	2024.931	7.941	8.107	2014.861	-0.328	34.9239
2.730	154.484	2024.376	7.946	8.124	2018.124	-0.328	34.9279
2.800	155.033	2023.610	7.957	8.144	2025.294	-0.302	34.9239
2.870	154.850	2023.618	7.949	8.146	2021.385	-0.315	34.9279
2.940	154.484	2024.713	7.951	8.144	2018.776	-0.328	34.9199
3.010	154.484	2025.370	7.959	8.138	2021.385	-0.328	34.9239
3.080	154.484	2026.672	7.973	8.138	2030.502	-0.315	34.9279
3.150	154.850	2025.687	7.967	8.124	2037.005	-0.315	34.9239
3.220	154.850	2024.057	7.959	8.124	2034.405	-0.289	34.9279
3.290	154.484	2023.841	7.946	8.124	2027.899	-0.328	34.9239
3.360	154.484	2024.063	7.949	8.144	2024.643	-0.328	34.9239
3.430	154.667	2025.585	7.951	8.152	2025.294	-0.328	34.9279
3.500	155.033	2026.236	7.954	8.152	2027.248	-0.315	34.9239
3.570	155.033	2027.328	7.959	8.172	2032.454	-0.289	34.9279
3.640	154.667	2026.350	7.957	8.188	2034.405	-0.328	34.9239
3.710	154.484	2027.437	7.949	8.200	2030.502	-0.328	34.9239
3.780	154.667	2027.978	7.949	8.188	2030.502	-0.328	34.9279

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.3181E 06	1.0114E 06 0.305	10.47	1127.2	0.11914E 07	0.3048	1.000	RUN NO. 2
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0114E 06	1.0114E 06 1.000	153.94	2029.0	512.34	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.252	0.2119	0.2119	0.2417	0.2549	34	208	0.256	0.0395	0.0395	0.0451	0.0476
2	2	0.286	0.0000	0.0000	0.0001	0.0001	35	210	0.255	0.0274	0.0274	0.0313	0.0330
3	3	0.252	0.1889	0.1889	0.2154	0.2272	36	301	0.254	0.0384	0.0384	0.0438	0.0462
4	4	0.252	0.1775	0.1775	0.2024	0.2135	37	302	0.254	0.0419	0.0419	0.0478	0.0504
5	5	0.253	0.1558	0.1558	0.1777	0.1874	38	303	0.255	0.0432	0.0432	0.0493	0.0520
6	6	0.252	0.1452	0.1452	0.1656	0.1746	39	304	0.256	0.0416	0.0416	0.0475	0.0501
7	7	0.252	0.1196	0.1196	0.1364	0.1439	40	305	0.256	0.0397	0.0397	0.0453	0.0478
8	8	0.253	0.0924	0.0924	0.1054	0.1112	41	306	0.254	0.0370	0.0370	0.0422	0.0445
9	9	0.253	0.0741	0.0741	0.0845	0.0891	42	307	0.256	0.0380	0.0380	0.0433	0.0457
10	10	0.253	0.0608	0.0608	0.0694	0.0732	43	308	0.253	0.0281	0.0281	0.0321	0.0338
11	11	0.253	0.0490	0.0490	0.0559	0.0590	44	309	0.253	0.0224	0.0224	0.0255	0.0269
12	12	0.253	0.0436	0.0436	0.0497	0.0524	45	310	0.252	0.0195	0.0195	0.0222	0.0234
13	13	0.254	0.0403	0.0403	0.0459	0.0485	46	401	0.251	0.0851	0.0851	0.0970	0.1023
14	14	0.254	0.0447	0.0447	0.0510	0.0538	47	402	0.252	0.0918	0.0918	0.1047	0.1104
15	15	0.254	0.0453	0.0453	0.0517	0.0546	48	403	0.255	0.0873	0.0873	0.0996	0.1051
16	16	0.254	0.0476	0.0476	0.0543	0.0573	49	404	0.254	0.0971	0.0971	0.1107	0.1168
17	17	0.254	0.0502	0.0502	0.0572	0.0604	50	405	0.253	0.0891	0.0891	0.1016	0.1071
18	18	0.255	0.0518	0.0518	0.0591	0.0623	51	406	0.253	0.0850	0.0850	0.0970	0.1023
19	19	0.255	0.0539	0.0539	0.0615	0.0649	52	407	0.253	0.0752	0.0752	0.0858	0.0905
20	20	0.255	0.0554	0.0554	0.0632	0.0667	53	408	0.252	0.0629	0.0629	0.0717	0.0756
21	21	0.256	0.0551	0.0551	0.0629	0.0664	54	409	0.252	0.0519	0.0519	0.0591	0.0624
22	22	0.255	0.0577	0.0577	0.0658	0.0695	55	410	0.251	0.0406	0.0406	0.0463	0.0488
23	23	0.255	0.0603	0.0603	0.0688	0.0726	56	501	0.251	0.1496	0.1496	0.1706	0.1799
24	24	0.255	0.0631	0.0631	0.0720	0.0760	57	502	0.251	0.1604	0.1604	0.1829	0.1929
25	25	0.254	0.0633	0.0633	0.0722	0.0762	58	503	0.252	0.1599	0.1599	0.1823	0.1922
26	103	0.259	0.0605	0.0605	0.0691	0.0729	59	504	0.253	0.1577	0.1577	0.1798	0.1897
27	105	0.260	0.0590	0.0590	0.0674	0.0712	60	505	0.253	0.1502	0.1502	0.1713	0.1807
28	107	0.259	0.0524	0.0524	0.0598	0.0631	61	506	0.253	0.1447	0.1447	0.1650	0.1741
29	108	0.258	0.0415	0.0415	0.0473	0.0499	62	507	0.252	0.1324	0.1324	0.1510	0.1593
30	110	0.256	0.0275	0.0275	0.0314	0.0331	63	508	0.252	0.1064	0.1064	0.1214	0.1280
31	203	0.257	0.0535	0.0535	0.0611	0.0644	64	509	0.251	0.0756	0.0756	0.0862	0.0909
32	205	0.257	0.0542	0.0542	0.0618	0.0652	65	510	0.251	0.0694	0.0694	0.0792	0.0835
33	207	0.257	0.0480	0.0480	0.0548	0.0578							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.3181E 06	1.0114E 06	0.305	10.47	1127.2	0.11914E 07	0.3048	1.000	RUN NO.	2
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0114E 06	1.0114E 06	1.000	153.94	2029.0	512.34	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	298.8	537.9	2.657	2.341	12.537	11.046	7.9637E-04	8.3990E-04	0.369
2	2	338.7	609.7	0.001	0.000	11.937	10.518	1.7801E-07	1.8830E-07	1.240
3	3	299.2	538.5	2.367	2.086	12.531	11.042	7.0992E-04	7.4874E-04	0.360
4	4	299.2	538.6	2.224	1.960	12.531	11.041	6.6708E-04	7.0356E-04	0.350
5	5	299.7	539.5	1.951	1.719	12.524	11.035	5.8548E-04	6.1751E-04	0.334
6	6	299.3	538.7	1.819	1.603	12.530	11.041	5.4564E-04	5.7548E-04	0.313
7	7	299.4	539.0	1.499	1.321	12.527	11.038	4.4962E-04	4.7421E-04	0.274
8	8	300.2	540.4	1.157	1.019	12.516	11.028	3.4729E-04	3.6631E-04	0.214
9	9	299.9	539.7	0.928	0.818	12.521	11.033	2.7852E-04	2.9376E-04	0.126
10	10	299.9	539.9	0.762	0.671	12.520	11.032	2.2859E-04	2.4111E-04	0.033
11	11	300.1	540.2	0.614	0.541	12.517	11.029	1.8425E-04	1.9434E-04	-0.092
12	12	300.3	540.5	0.545	0.480	12.515	11.028	1.6367E-04	1.7263E-04	-0.161
13	13	301.4	542.5	0.503	0.443	12.498	11.012	1.5134E-04	1.5964E-04	-0.180
14	14	301.0	541.8	0.559	0.492	12.504	11.018	1.6793E-04	1.7714E-04	-0.097
15	15	301.1	541.9	0.567	0.500	12.503	11.017	1.7041E-04	1.7975E-04	-0.054
16	16	301.3	542.4	0.595	0.524	12.499	11.013	1.7891E-04	1.8873E-04	-0.027
17	17	301.6	542.9	0.627	0.553	12.495	11.010	1.8862E-04	1.9896E-04	-0.014
18	18	302.7	544.9	0.646	0.569	12.478	10.995	1.9457E-04	2.0526E-04	0.009
19	19	302.2	544.0	0.673	0.593	12.485	11.001	2.0269E-04	2.1382E-04	0.037
20	20	302.3	544.2	0.692	0.610	12.484	11.000	2.0828E-04	2.1972E-04	0.056
21	21	303.7	546.6	0.687	0.606	12.463	10.982	2.0727E-04	2.1867E-04	0.034
22	22	302.8	545.1	0.720	0.634	12.477	10.994	2.1692E-04	2.2884E-04	0.050
23	23	302.5	544.4	0.753	0.663	12.482	10.998	2.2674E-04	2.3920E-04	0.067
24	24	302.5	544.6	0.788	0.694	12.481	10.997	2.3735E-04	2.5039E-04	0.073
25	25	301.9	543.4	0.791	0.697	12.490	11.006	2.3803E-04	2.5109E-04	0.075
26	103	307.6	553.7	0.751	0.662	12.404	10.930	2.2760E-04	2.4019E-04	0.079
27	105	308.6	555.5	0.731	0.644	12.389	10.917	2.2202E-04	2.3432E-04	0.069
28	107	307.5	553.5	0.650	0.573	12.406	10.932	1.9707E-04	2.0797E-04	0.011
29	108	306.0	550.8	0.515	0.454	12.428	10.951	1.5585E-04	1.6445E-04	0.003
30	110	304.3	547.7	0.343	0.302	12.455	10.974	1.0342E-04	1.0911E-04	0.330
31	203	304.5	548.0	0.666	0.587	12.452	10.972	2.0111E-04	2.1219E-04	-0.000
32	205	305.1	549.1	0.674	0.594	12.443	10.964	2.0359E-04	2.1481E-04	0.021
33	207	304.6	548.2	0.598	0.527	12.450	10.970	1.8053E-04	1.9047E-04	-0.044
34	208	303.7	546.6	0.493	0.434	12.464	10.982	1.4864E-04	1.5682E-04	-0.131
35	210	302.3	544.2	0.342	0.302	12.484	11.000	1.0310E-04	1.0876E-04	0.099
36	301	300.9	541.7	0.480	0.423	12.505	11.018	1.4434E-04	1.5225E-04	-0.298
37	302	301.9	543.4	0.524	0.461	12.491	11.006	1.5756E-04	1.6621E-04	-0.198
38	303	302.8	545.0	0.539	0.475	12.477	10.994	1.6233E-04	1.7125E-04	-0.177
39	304	303.2	545.7	0.519	0.457	12.471	10.989	1.5650E-04	1.6510E-04	-0.198
40	305	303.2	545.8	0.495	0.436	12.471	10.988	1.4913E-04	1.5733E-04	-0.209
41	306	301.2	542.1	0.463	0.408	12.502	11.016	1.3909E-04	1.4671E-04	-0.218
42	307	303.4	546.2	0.473	0.417	12.467	10.986	1.4271E-04	1.5055E-04	0.236
43	308	300.3	540.5	0.352	0.310	12.515	11.027	1.0573E-04	1.1152E-04	-0.391
44	309	299.6	539.2	0.280	0.247	12.525	11.036	8.4003E-05	8.8598E-05	-0.273
45	310	299.2	538.5	0.244	0.215	12.532	11.042	7.3143E-05	7.7142E-05	-0.013
46	401	298.1	536.6	1.067	0.940	12.547	11.056	3.1957E-04	3.3702E-04	0.118
47	402	299.3	538.7	1.150	1.014	12.530	11.040	3.4503E-04	3.6389E-04	0.167
48	403	302.6	544.7	1.090	0.960	12.479	10.996	3.2822E-04	3.4625E-04	0.503
49	404	300.8	541.4	1.214	1.070	12.508	11.021	3.6486E-04	3.8485E-04	0.307
50	405	300.5	540.9	1.114	0.982	12.512	11.024	3.3469E-04	3.5302E-04	0.146
51	406	300.2	540.3	1.064	0.938	12.516	11.028	3.1957E-04	3.3707E-04	0.131
52	407	299.8	539.6	0.942	0.830	12.522	11.034	2.8270E-04	2.9817E-04	0.082
53	408	298.4	537.1	0.788	0.695	12.544	11.053	2.3616E-04	2.4906E-04	0.082
54	409	298.4	537.2	0.650	0.573	12.542	11.052	1.9485E-04	2.0549E-04	0.221
55	410	298.2	536.7	0.509	0.449	12.547	11.055	1.5245E-04	1.6078E-04	0.442
56	501	297.6	535.7	1.878	1.655	12.555	11.062	5.6213E-04	5.9281E-04	0.244
57	502	298.3	537.0	2.012	1.773	12.544	11.053	6.0277E-04	6.3569E-04	0.285
58	503	299.2	538.6	2.003	1.765	12.531	11.042	6.0069E-04	6.3354E-04	0.291
59	504	299.7	539.4	1.975	1.740	12.524	11.035	5.9259E-04	6.2502E-04	0.291
60	505	299.9	539.9	1.881	1.657	12.520	11.032	5.6462E-04	5.9553E-04	0.295
61	506	299.8	539.6	1.812	1.597	12.523	11.034	5.4381E-04	5.7357E-04	0.264
62	507	299.3	538.7	1.659	1.462	12.530	11.040	4.9762E-04	5.2483E-04	0.247
63	508	298.5	537.3	1.335	1.176	12.542	11.051	3.9994E-04	4.2179E-04	0.287
64	509	297.6	535.7	0.949	0.836	12.555	11.062	2.8406E-04	2.9956E-04	0.448
65	510	297.5	535.5	0.872	0.768	12.557	11.064	2.6089E-04	2.7512E-04	0.571

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7182E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.481	7.949	8.188
PT2/PT1	5.509E-02	5.164E-02	5.319E-02
TEMP(DEG R)	2037.0	2030.5	2108.0
TT2/TT1	1.0040	1.0008	1.0389

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 9 FRAME 25 TO 82 CONSTANT SET 211

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.47968 06	74.86	2059.37	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	74.859	2059.371	0.075	0.063	632.611	-0.297	17.6165
0.070	74.859	2059.759	0.075	0.071	634.626	-0.258	17.6165
0.140	75.407	2059.501	0.070	0.113	634.628	-0.271	17.6124
0.210	74.859	2059.115	0.075	0.393	633.620	-0.271	17.6165
0.280	74.859	2058.209	0.120	1.069	637.646	-0.297	17.6124
0.350	74.859	2058.984	0.540	1.897	729.621	-0.297	17.6124
0.420	75.407	2059.629	1.609	2.707	1019.328	-0.271	17.6084
0.490	74.859	2059.501	2.693	3.387	1381.454	-0.284	17.6124
0.560	74.859	2059.244	3.348	3.764	1660.549	-0.284	17.6124
0.630	74.859	2057.820	3.745	3.884	1801.373	-0.310	17.6124
0.700	74.859	2059.242	3.933	3.851	1854.937	-0.323	34.7207
0.770	75.407	2059.758	4.007	3.742	1875.802	-0.271	34.9224
0.840	74.859	2059.630	3.983	3.666	1887.878	-0.310	34.9224
0.910	74.859	2059.372	3.956	3.663	1895.912	-0.310	34.9264
0.980	74.859	2058.465	3.946	3.705	1912.608	-0.323	34.9264
1.050	74.859	2059.241	3.935	3.758	1931.904	-0.323	34.9264
1.120	74.859	2060.017	3.951	3.806	1951.124	-0.284	34.9304
1.190	75.590	2059.500	3.954	3.831	1968.291	-0.297	34.9304
1.260	74.859	2059.372	3.951	3.856	1980.140	-0.310	34.9304
1.330	74.859	2058.339	3.954	3.870	1988.680	-0.310	34.9304
1.400	74.859	2059.241	3.951	3.887	1995.239	-0.323	34.9304
1.470	75.407	2060.146	3.951	3.906	2001.788	-0.297	34.9304
1.540	75.590	2059.371	3.954	3.918	2006.368	-0.297	34.9304
1.610	74.859	2059.630	3.959	3.932	2014.209	-0.297	34.9304
1.680	74.859	2058.597	3.962	3.943	2025.546	-0.323	34.9304
1.750	74.859	2059.241	3.962	3.957	2037.005	-0.323	34.9304
1.820	74.859	2059.888	3.962	3.968	2042.200	-0.297	34.9304
1.890	75.590	2059.630	3.949	3.974	2043.458	-0.271	34.9264
1.960	74.859	2059.243	3.935	3.974	2040.902	-0.297	34.9304
2.030	74.859	2058.596	3.935	3.985	2038.304	-0.323	34.9304
2.100	74.859	2058.983	3.943	3.982	2040.252	-0.323	34.9345
2.170	74.859	2059.887	3.954	3.987	2046.742	-0.297	34.9304
2.240	75.590	2059.370	3.951	3.993	2048.687	-0.297	34.9304
2.310	74.859	2059.114	3.956	3.999	2055.812	-0.297	34.9304
2.380	74.859	2058.725	3.962	4.001	2066.803	-0.323	34.9304
2.450	74.859	2058.854	3.962	4.001	2073.257	-0.323	34.9345
2.520	75.407	2060.145	3.956	4.001	2071.322	-0.297	34.9345
2.590	75.590	2059.500	3.949	4.001	2064.219	-0.297	34.9304
2.660	75.407	2059.372	3.935	4.001	2060.341	-0.297	34.9304
2.730	74.859	2058.725	3.935	4.001	2059.694	-0.310	34.9304
2.800	74.859	2059.241	3.935	4.001	2062.280	-0.323	34.9304
2.870	74.859	2060.017	3.956	4.013	2068.095	-0.297	34.9345
2.940	75.590	2059.758	3.970	4.013	2079.703	-0.297	34.9304
3.010	75.407	2059.241	3.962	4.010	2088.069	-0.297	34.9304
3.080	74.859	2058.725	3.954	4.001	2086.140	-0.323	34.9304
3.150	74.859	2058.983	3.951	4.001	2081.635	-0.310	34.9304
3.220	74.859	2059.887	3.959	4.013	2084.209	-0.297	34.9385
3.290	75.590	2059.628	3.962	4.013	2090.641	-0.284	34.9264
3.360	75.407	2059.372	3.962	4.015	2093.853	-0.297	34.9304
3.430	74.859	2058.984	3.962	4.018	2093.853	-0.310	34.9304
3.500	74.859	2058.852	3.962	4.018	2092.568	-0.323	34.9304
3.570	74.859	2060.145	3.962	4.024	2095.780	-0.297	34.9345
3.640	75.590	2059.758	3.959	4.029	2093.853	-0.297	34.9304
3.710	74.859	2059.500	3.951	4.027	2086.140	-0.297	34.9304
3.780	74.859	2058.984	3.951	4.027	2085.496	-0.323	34.9345
3.850	74.859	2059.112	3.951	4.024	2084.853	-0.323	34.9304
3.920	75.407	2059.887	3.956	4.029	2089.355	-0.297	34.9385
3.990	75.590	2059.628	3.954	4.038	2089.498	-0.297	34.9304

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CENTER, MOFFETT FIELD, CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.5725E 06	4.7962E 05	0.305	5.09	1144.1	0.1211CE 07	0.3048	1.000	RUN NO.	3
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	4.7962E 05	4.7962E 05	1.000	74.86	2059.4	520.78	1.0000	1.000		

CHAN	T/C	HW/HT	Q/CS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/CS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.258	C.0578	C.0578	0.0660	0.0696	34	20E	C.260	0.0443	0.0443	0.0505	0.0533
2	2	C.261	C.0000	C.0000	C.0000	0.0000	35	21C	0.260	0.0297	0.0297	0.0339	0.0358
3	3	0.258	C.0532	0.0532	0.0608	C.0641	36	3C1	C.259	C.0436	C.0436	0.0498	0.0525
4	4	0.258	C.0520	0.0520	0.0594	C.0627	37	302	0.259	0.0464	0.0464	C.0530	0.0559
5	5	0.258	0.0486	C.0486	0.0555	0.0586	38	3C3	0.260	0.0472	0.0472	0.0539	0.0569
6	6	0.258	0.0488	C.0488	0.0557	C.0587	39	3C4	0.260	0.0460	0.0460	0.0525	0.0554
7	7	0.258	C.0486	0.0486	0.0554	C.0585	40	305	0.260	0.0439	0.0439	0.0502	0.0529
8	8	0.259	C.0474	C.0474	0.0542	0.0572	41	306	0.259	0.0427	0.0427	0.0488	0.0515
9	9	0.258	C.0480	C.0480	C.0548	0.0578	42	3C7	C.261	0.04C2	0.0402	0.0460	0.0485
10	10	C.258	C.0482	C.0482	0.0550	C.0581	43	3C8	0.258	0.0321	C.0321	0.0367	0.0387
11	11	0.258	C.0466	0.0466	0.0532	C.0562	44	3C9	0.258	0.0251	0.0251	0.0286	0.0302
12	12	0.258	C.0459	0.0459	0.0524	0.0553	45	310	0.258	0.0198	0.0198	0.0226	0.0239
13	13	0.259	C.0434	C.0434	C.0495	0.0523	46	4C1	0.257	0.0436	0.0436	0.0497	0.0525
14	14	0.259	C.0461	0.0461	0.0527	C.0556	47	4C2	0.258	0.0484	0.0484	0.0552	0.0583
15	15	0.259	C.0464	0.0464	0.0530	C.0559	48	4C3	0.258	0.0484	0.0484	0.0553	0.0584
16	16	0.259	C.0500	0.0500	0.0571	0.0602	49	4C4	C.258	0.0482	0.0482	0.0550	0.0580
17	17	0.259	0.0529	0.0529	C.0604	C.0637	50	4C5	0.258	0.0453	0.0453	0.0517	0.0546
18	18	0.260	C.0554	0.0554	0.0632	C.0667	51	4C6	0.258	0.0457	0.0457	0.0522	0.0550
19	19	0.260	C.0571	C.0571	0.0652	0.0688	52	4C7	0.258	0.0409	0.0408	0.0466	0.0491
20	20	0.260	0.0576	C.0576	0.0658	0.0694	53	4C8	0.257	0.0323	0.0323	0.0369	0.0389
21	21	C.261	0.0599	0.0599	C.0684	C.0722	54	4C9	0.258	0.0281	0.0281	0.0321	0.0339
22	22	0.260	C.0625	0.0625	C.0713	C.0753	55	410	0.257	0.0218	0.0218	0.0249	0.0262
23	23	0.260	C.0654	C.0654	0.0746	0.0788	56	501	0.257	0.0452	0.0452	0.0516	0.0545
24	24	C.260	C.0684	C.0684	C.0781	0.0824	57	5C2	0.258	0.0505	0.0505	0.0577	0.0609
25	25	C.260	C.0693	0.0693	C.C792	0.0835	58	5C3	0.258	0.05C8	0.0508	0.0579	0.0611
26	103	0.263	C.0673	0.0673	C.0768	C.0811	59	504	0.258	0.0497	0.0497	C.0567	0.0599
27	105	0.263	C.0656	C.0656	0.C75C	0.0791	60	505	0.258	0.0468	0.0468	0.0534	0.0564
28	107	C.263	0.0577	C.0577	C.0659	C.0695	61	5C6	0.258	C.0432	0.0432	0.0493	0.0520
29	108	C.262	C.0446	0.0446	0.0509	C.0537	62	507	0.258	0.0376	C.0376	0.0429	0.0453
30	110	0.261	C.0274	0.0274	0.0313	0.0331	63	508	0.257	0.0283	0.0283	0.0323	C.0341
31	203	C.261	C.0601	C.0601	0.0687	0.0725	64	5C9	0.256	0.0169	0.0169	0.0193	0.0203
32	205	C.261	C.0592	0.0592	C.0677	C.0714	65	510	0.257	C.0222	0.0222	0.0255	0.0267
33	207	0.261	C.0535	0.0535	0.0612	C.0645							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.5745E 08	4.7462E 05	0.305	3.09	1144.1	0.1211CE 07	0.3048	1.000	RUN NO.	3
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	4.7962E 08	4.7962E 05	1.000	74.86	2059.4	520.78	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	QW(CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.408)	ST(0.874)	TIME(SEC)
1	1	311.2	560.2	0.509	0.448	8.8C3	7.757	3.1496E-04	3.3235E-04	0.112
2	2	336.4	605.7	C.CCC	C.CCC	8.515	7.503	1.5360E-13	1.6241E-13	*******
3	3	311.9	560.6	0.468	C.413	8.801	7.754	2.9009E-04	3.0611E-04	C.077
4	4	311.5	560.7	0.458	0.404	8.800	7.754	2.8366E-04	2.9933E-04	0.057
5	5	311.7	561.0	0.428	0.377	8.798	7.753	2.6507E-04	2.7971E-04	0.065
6	6	311.4	560.5	0.429	0.378	8.802	7.755	2.6573E-04	2.8040E-04	0.050
7	7	311.3	560.3	0.427	0.377	8.802	7.756	2.6464E-04	2.7925E-04	C.057
8	8	311.7	561.1	0.417	0.368	8.798	7.752	2.5858E-04	2.7287E-04	0.070
9	9	311.5	560.7	0.423	0.372	8.800	7.754	2.6168E-04	2.7613E-04	0.065
10	10	311.5	560.6	0.424	C.374	8.801	7.755	2.6268E-04	2.7718E-04	C.061
11	11	311.6	560.9	0.410	0.361	8.799	7.753	2.5402E-04	2.6805E-04	0.041
12	12	311.6	561.0	0.404	0.356	8.799	7.753	2.5021E-04	2.6403E-04	0.035
13	13	312.2	562.0	C.382	C.336	8.793	7.748	2.3651E-04	2.4958E-04	0.017
14	14	312.0	561.6	0.406	C.358	8.795	7.750	2.5142E-04	2.6531E-04	0.049
15	15	312.1	561.7	0.408	0.359	8.794	7.749	2.5283E-04	2.6680E-04	0.071
16	16	312.3	562.1	0.440	0.387	8.792	7.747	2.7250E-04	2.8756E-04	0.102
17	17	312.6	562.6	C.465	C.409	8.789	7.744	2.8810E-04	3.0404E-04	0.119
18	18	313.2	563.7	0.486	0.428	8.783	7.739	3.0177E-04	3.1848E-04	C.144
19	19	313.0	563.3	0.501	0.442	8.785	7.741	3.1101E-04	3.2821E-04	0.160
20	20	313.2	563.7	C.506	C.446	8.782	7.739	3.1408E-04	3.3146E-04	0.165
21	21	314.1	565.4	0.526	C.463	8.773	7.730	3.2660E-04	3.4470E-04	0.171
22	22	313.5	564.4	0.548	0.483	8.779	7.735	3.4056E-04	3.5942E-04	0.184
23	23	313.3	564.0	0.574	G.5C6	8.781	7.737	3.5629E-04	3.7601E-04	0.188
24	24	313.4	564.1	C.601	C.529	8.781	7.737	3.7290E-04	3.9354E-04	0.188
25	25	313.C	563.4	0.609	0.537	8.784	7.740	3.7782E-04	3.9873E-04	0.188
26	103	316.8	570.2	0.588	0.518	8.765	7.705	3.6670E-04	3.8709E-04	0.221
27	105	317.4	571.3	0.573	0.505	8.759	7.700	3.5769E-04	3.7760E-04	0.213
28	107	316.6	570.0	0.504	C.444	8.746	7.707	3.1439E-04	3.3187E-04	0.155
29	108	315.7	568.2	0.390	0.344	8.756	7.715	2.4299E-04	2.5649E-04	0.194
30	110	314.5	566.2	0.241	0.212	8.768	7.726	1.4954E-04	1.5784E-04	0.508
31	203	314.4	566.0	0.527	C.465	8.769	7.727	3.2774E-04	3.4591E-04	0.179
32	205	314.8	566.6	0.519	0.458	8.766	7.724	3.2298E-04	3.4090E-04	0.162
33	207	314.4	565.8	0.470	0.414	8.770	7.728	2.9186E-04	3.0804E-04	0.124
34	208	313.8	564.9	0.388	0.342	8.776	7.733	2.4127E-04	2.5463E-04	0.062
35	210	313.C	563.5	0.261	C.230	8.784	7.740	1.6186E-04	1.7084E-04	0.275
36	301	312.2	562.C	0.383	0.338	8.792	7.747	2.3767E-04	2.5081E-04	-0.040
37	302	312.7	562.8	C.408	0.359	8.788	7.743	2.5303E-04	2.6703E-04	0.020
38	303	313.1	563.5	C.415	C.366	8.784	7.740	2.5745E-04	2.717CE-04	0.022
39	304	313.3	563.9	0.404	0.356	8.782	7.738	2.5063E-04	2.6451E-04	0.010
40	305	313.4	564.C	0.386	0.340	8.781	7.737	2.3944E-04	2.5269E-04	-0.003
41	306	312.3	562.1	0.376	0.331	8.792	7.747	2.33CCE-04	2.4588E-04	0.003
42	307	314.2	565.6	C.353	C.311	8.772	7.729	2.1936E-04	2.3152E-04	0.352
43	308	311.4	560.6	0.283	0.249	8.801	7.755	1.7502E-04	1.8468E-04	-0.130
44	309	311.1	560.0	0.221	0.195	8.805	7.758	1.3671E-04	1.4425E-04	-0.044
45	310	310.9	559.5	0.175	0.154	8.807	7.760	1.0809E-04	1.1406E-04	0.132
46	401	310.5	558.8	C.384	C.338	8.811	7.764	2.3746E-04	2.5056E-04	-0.054
47	402	310.9	559.7	0.426	0.375	8.806	7.760	2.6363E-04	2.7818E-04	0.032
48	403	311.2	560.1	0.427	0.376	8.804	7.757	2.6402E-04	2.7859E-04	0.025
49	404	311.3	560.3	C.424	C.374	8.802	7.756	2.6253E-04	2.7702E-04	0.034
50	405	311.5	560.7	0.399	0.351	8.800	7.754	2.4689E-04	2.6052E-04	0.001
51	406	311.3	560.3	0.402	0.354	8.802	7.756	2.4897E-04	2.6272E-04	0.012
52	407	311.C	559.7	0.359	C.316	8.806	7.759	2.2227E-04	2.3454E-04	-0.034
53	408	310.4	558.7	0.285	C.251	8.812	7.764	1.7618E-04	1.8589E-04	-C.056
54	409	310.7	559.2	0.248	0.218	8.809	7.762	1.5337E-04	1.6183E-04	0.150
55	410	310.5	558.9	0.192	0.169	8.811	7.764	1.1875E-04	1.2530E-04	0.359
56	501	310.3	558.5	0.399	C.351	8.813	7.765	2.4657E-04	2.6016E-04	-0.072
57	502	310.6	559.1	0.445	C.392	8.809	7.762	2.7538E-04	2.9057E-04	C.023
58	503	311.C	559.8	0.447	0.394	8.805	7.759	2.7659E-04	2.9185C-04	0.044
59	504	311.2	560.2	0.437	C.385	8.803	7.756	2.7081E-04	2.8576E-04	0.048
60	505	311.2	560.2	0.412	C.363	8.803	7.757	2.5504E-04	2.6912E-04	0.040
61	506	311.2	560.2	C.380	C.335	8.803	7.757	2.3544E-04	2.4843E-04	-C.031
62	507	310.8	559.5	0.331	0.292	8.807	7.761	2.0475E-04	2.1605E-04	-0.059
63	508	310.C	557.9	C.249	C.220	8.816	7.768	1.5408E-04	1.6257E-04	0.017
64	509	309.4	555.7	C.141	C.131	8.829	7.780	9.2026E-05	9.7089E-05	0.240
65	510	310.1	558.2	0.156	0.132	8.815	7.767	1.2089E-04	1.2755E-04	0.377

FREE-STREAM VELOCITY = VELOCITY PARCEL = 1.4071E+01 (1000S/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	4.142	3.954	4.038
PT2/PT1	5.533E-02	5.282E-02	5.394E-02
TEMP(DEG R)	2060.3	2090.0	2174.8
TT2/TT1	1.0005	1.0149	1.0560

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 4 FRAME 25 TO 82 CONSTANT SET 211

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 0 1	5.10	0.5143E 06	76.15	1996.08	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	76.334	1996.990	0.055	0.129	642.660	-0.290	17.6147
0.070	76.517	1996.729	0.097	0.135	643.660	-0.264	17.6147
0.140	76.334	1996.595	0.087	0.165	642.660	-0.277	17.6106
0.210	76.151	1996.338	0.052	0.434	642.660	-0.316	17.6147
0.280	76.151	1996.207	0.126	1.114	644.660	-0.303	17.6066
0.350	76.151	1997.517	0.511	1.953	720.244	-0.290	17.6066
0.420	76.700	1996.598	1.529	2.644	981.786	-0.290	17.6066
0.490	76.151	1996.337	2.582	3.278	1329.116	-0.290	17.6106
0.560	76.151	1995.945	3.183	3.648	1600.157	-0.316	17.6106
0.630	75.968	1995.552	3.550	3.799	1745.881	-0.303	17.6066
0.700	76.151	1996.863	3.769	3.779	1791.140	-0.316	12.9045
0.770	76.517	1996.729	3.851	3.572	1801.373	-0.303	34.6809
0.840	76.334	1996.467	3.835	3.371	1806.141	-0.316	34.9148
0.910	76.151	1996.076	3.808	3.304	1819.063	-0.316	34.9188
0.980	75.968	1995.552	3.790	3.320	1838.723	-0.329	34.9188
1.050	76.151	1996.863	3.787	3.376	1860.330	-0.316	34.9269
1.120	76.517	1996.994	3.782	3.429	1875.130	-0.303	34.9188
1.190	76.334	1996.338	3.792	3.460	1885.867	-0.290	34.9229
1.260	75.968	1996.076	3.758	3.491	1901.261	-0.329	34.9188
1.330	75.785	1995.683	3.787	3.519	1909.273	-0.342	34.9188
1.400	76.151	1996.865	3.785	3.533	1912.608	-0.316	34.9269
1.470	76.334	1996.865	3.798	3.547	1921.933	-0.303	34.9188
1.540	76.334	1996.206	3.808	3.561	1935.887	-0.303	34.9269
1.610	76.151	1995.815	3.798	3.572	1949.139	-0.329	34.9188
1.680	75.968	1995.421	3.795	3.594	1955.752	-0.329	34.9229
1.750	76.151	1996.865	3.795	3.614	1961.655	-0.329	34.9269
1.820	76.334	1996.995	3.798	3.622	1961.035	-0.303	34.9229
1.890	76.151	1996.604	3.808	3.631	1964.994	-0.303	34.9269
1.960	76.151	1995.815	3.806	3.631	1973.561	-0.329	34.9229
2.030	75.968	1995.552	3.758	3.645	1983.426	-0.342	34.9229
2.100	75.968	1996.733	3.798	3.645	1988.680	-0.342	34.9269
2.170	76.334	1996.865	3.798	3.650	1988.680	-0.303	34.9188
2.240	76.151	1996.734	3.790	3.650	1984.740	-0.303	34.9269
2.310	76.151	1996.212	3.790	3.659	1982.112	-0.316	34.9229
2.380	75.968	1995.422	3.795	3.659	1984.740	-0.329	34.9229
2.450	76.151	1996.735	3.792	3.648	1988.680	-0.329	34.9309
2.520	76.334	1996.595	3.787	3.645	1988.024	-0.290	34.9188
2.590	76.151	1996.339	3.787	3.650	1988.024	-0.303	34.9269
2.660	76.151	1996.342	3.782	3.667	1989.992	-0.316	34.9229
2.730	75.968	1995.553	3.792	3.676	1993.272	-0.329	34.9229
2.800	75.785	1996.733	3.758	3.673	2001.788	-0.329	34.9269
2.870	76.334	1996.595	3.795	3.673	2007.676	-0.290	34.9188
2.940	76.151	1996.471	3.787	3.667	2003.752	-0.303	34.9269
3.010	75.968	1996.343	3.758	3.659	2003.752	-0.316	34.9188
3.080	75.785	1995.292	3.758	3.667	2007.676	-0.329	34.9229
3.150	75.968	1996.995	3.752	3.687	2011.596	-0.329	34.9309
3.220	76.334	1996.598	3.787	3.712	2008.329	-0.303	34.9229
3.290	76.151	1996.207	3.790	3.706	2007.022	-0.303	34.9269
3.360	75.968	1995.946	3.795	3.687	2008.329	-0.316	34.9229
3.430	75.968	1995.422	3.785	3.673	2013.556	-0.329	34.9229
3.500	75.968	1996.603	3.771	3.659	2010.943	-0.316	34.9269
3.570	76.334	1996.865	3.785	3.673	2007.676	-0.303	34.9229
3.640	76.151	1996.471	3.779	3.687	2007.676	-0.290	34.9269
3.710	75.968	1995.946	3.782	3.712	2008.329	-0.316	34.9229
3.780	75.968	1995.030	3.782	3.712	2010.943	-0.329	34.9229
3.850	75.968	1996.603	3.798	3.715	2014.209	-0.329	34.9269
3.920	76.151	1996.865	3.808	3.715	2020.081	-0.303	34.9229
3.990	76.151	1996.076	3.795	3.699	2020.081	-0.290	34.9269

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6873E C6	5.1429E 05	C.305	5.18	1108.9	0.11703E 07	0.3048	1.CC0	RUN NO.	4
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEC R)	HT(BTU/LBM)	RS(FT)	HAW/HT			
5.10	5.1429E C5	5.1429E 05	1.CC0	76.15	1996.1	503.25	1.0000	1.000		

CHAN	T/C	HW/HT	G/GS	H/HS(1.CCC)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	G/WS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.269	C.0581	C.0581	0.0665	0.0702	34	208	0.271	0.0430	0.0430	0.0492	0.0520
2	2	0.291	C.CCCO	0.0000	0.0000	C.CCCO	35	21C	0.270	0.0292	0.C292	0.0334	0.0352
3	3	0.269	C.0556	0.0556	C.0636	C.0671	36	301	0.270	C.0484	0.0484	0.0554	0.0585
4	4	0.269	C.0552	0.0552	0.0631	0.0666	37	302	0.270	0.0509	0.0509	0.0583	0.0616
5	5	0.269	C.0516	C.0516	C.059C	0.0623	38	303	0.271	0.0518	0.0518	0.0593	0.0626
6	6	0.269	0.0516	C.0516	C.0591	C.0624	39	304	0.271	0.0508	0.0508	0.0582	0.0615
7	7	0.269	C.0514	0.0514	C.0588	C.C621	4C	305	0.271	C.0488	0.0488	0.0558	0.0590
8	8	0.269	C.0492	0.0492	C.0562	0.0594	41	306	C.270	0.0481	0.0481	0.0550	0.0581
9	9	0.269	C.0493	C.0493	0.0564	0.0596	42	307	C.270	0.0435	0.0435	0.0497	0.0525
10	10	0.269	C.0493	0.0493	C.0564	0.0595	43	308	0.269	0.0357	0.C357	0.0409	0.0432
11	11	0.269	C.0488	0.0488	C.0559	C.059C	44	309	0.269	0.0296	0.C296	0.0338	0.0358
12	12	0.270	C.0497	0.0497	C.0569	0.0601	45	310	0.269	0.0243	0.0243	0.C278	0.0293
13	13	0.270	C.0489	0.0489	0.0559	0.0591	46	401	0.268	0.0453	0.0453	0.0518	0.0547
14	14	0.270	0.0512	0.0512	0.0586	0.0619	47	402	0.269	C.0496	0.0496	0.0568	0.0600
15	15	0.270	0.0499	0.0499	C.0571	C.C603	48	403	0.269	0.0502	0.C502	0.0574	0.0606
16	16	0.270	C.0492	0.0492	C.0563	0.0595	49	404	0.269	0.0491	0.0491	0.0561	0.0593
17	17	0.270	C.0525	0.0525	0.0601	0.0635	50	405	C.269	0.0489	0.0489	0.0559	0.0591
18	18	C.271	C.0552	0.0552	C.0632	0.0667	51	406	0.269	C.0459	0.0459	0.0525	0.0555
19	19	C.270	C.0578	0.0578	C.0661	C.C698	52	407	0.269	C.0435	0.C435	0.0498	0.0526
20	20	0.271	C.0598	0.0598	C.0684	0.0722	53	408	0.268	0.0352	0.C352	C.C4C3	0.0425
21	21	0.271	C.0647	C.0647	0.0740	0.0782	54	409	0.268	0.0295	0.0295	0.0337	0.0356
22	22	0.271	0.0689	0.0689	C.0788	0.0833	55	410	0.268	0.0226	0.C226	0.0258	0.0273
23	23	0.271	0.0711	0.0711	C.0813	0.0859	56	501	0.268	C.0475	0.0475	0.0544	0.0574
24	24	0.271	C.C743	0.0743	0.085C	0.0898	57	502	0.268	0.0520	C.C520	C.0594	0.0628
25	25	0.271	0.0763	C.0763	0.0873	0.0922	58	503	0.269	0.0531	0.0531	0.0607	0.0642
26	103	C.274	0.0681	0.0681	0.0779	0.0823	59	504	0.269	C.0512	0.C512	0.0586	0.0619
27	105	C.274	C.0673	0.0673	C.C770	C.C814	60	505	0.269	C.0475	0.0475	0.0543	0.0574
28	107	0.273	C.0616	0.0616	0.0705	0.0745	61	506	0.269	0.0449	0.0449	0.0514	0.0543
29	108	0.273	C.0480	0.0480	0.C55C	0.0581	62	507	0.268	0.0390	0.0390	0.0446	0.0471
30	110	C.271	C.0314	0.0314	C.C36C	C.0380	63	508	0.268	0.0271	0.C271	0.0310	0.0327
31	203	C.272	C.0575	0.0575	C.0659	C.0696	64	509	0.267	0.0160	0.C160	0.0183	0.0193
32	205	0.272	C.0572	0.0572	C.0655	0.0692	65	510	0.268	0.0227	0.C227	C.C260	0.0274
33	207	0.272	C.0519	C.0519	0.0594	0.0628							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6673E C6	5.1429E C5	0.3C5	5.18	1108.4	0.11703E 07	0.3048	1.CCO	RUN NO.	4
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEC R)	HT(BTL/LBM)	RS(FT)	HAW/HT		
5.10	5.1429E C5	5.1429E 05	1.CCO	76.15	1996.1	503.25	1.CCOC	1.CCO		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTL/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	313.3	563.9	0.452	C.433	E.457	7.452	3.0755E-04	3.2483E-04	0.151
2	2	338.7	6C9.7	C.CCO	C.CCC	E.188	7.215	2.0268E-15	2.1449E-15	*******
3	3	313.6	564.5	0.470	C.414	8.453	7.448	2.9390E-04	3.1C42E-04	C.138
4	4	313.6	564.5	0.466	0.411	8.453	7.448	2.9174E-04	3.0814E-04	0.129
5	5	313.8	564.9	0.436	0.384	E.451	7.446	2.7292E-04	2.8826E-04	0.129
6	6	313.6	564.4	C.437	C.385	E.453	7.448	2.7316E-04	2.8851E-04	0.108
7	7	313.5	564.4	0.435	C.383	8.454	7.449	2.7195E-04	2.8724E-04	0.109
8	8	314.C	565.2	0.415	0.366	8.449	7.445	2.6006E-04	2.7468E-04	0.094
9	9	313.8	564.8	0.417	0.367	E.451	7.447	2.6082E-04	2.7548E-04	0.087
10	10	313.6	564.9	0.416	C.367	E.451	7.446	2.6068E-04	2.7534E-04	0.079
11	11	314.C	565.2	C.413	C.364	8.449	7.445	2.5833E-04	2.7286E-04	C.076
12	12	314.1	565.3	0.420	0.370	8.448	7.444	2.6315E-04	2.7795E-04	C.098
13	13	314.5	566.2	0.413	0.363	E.443	7.440	2.5E48E-04	2.7303E-04	0.107
14	14	314.4	565.9	C.432	C.381	E.445	7.441	2.7C79E-04	2.8603E-04	0.119
15	15	314.4	566.0	0.421	C.371	8.444	7.441	2.6382E-04	2.7867E-04	0.121
16	16	314.6	566.3	0.416	0.366	8.443	7.439	2.6047E-04	2.7514E-04	0.087
17	17	314.8	566.7	0.444	0.391	E.44C	7.437	2.7800E-04	2.9366E-04	0.120
18	18	315.3	567.6	0.466	C.410	E.435	7.432	2.9200E-04	3.0845E-04	0.152
19	19	315.1	567.2	0.487	C.430	8.437	7.434	3.0567E-04	3.2289E-04	C.170
20	20	315.2	567.4	0.504	0.444	8.436	7.433	3.1618E-04	3.3399E-04	0.184
21	21	316.C	568.7	0.545	0.481	E.428	7.426	3.4233E-04	3.6164E-04	0.202
22	22	315.5	567.9	0.581	C.512	E.433	7.431	3.6436E-04	3.8490E-04	0.218
23	23	315.4	567.7	0.599	C.528	8.434	7.432	3.7600E-04	3.9718E-04	0.223
24	24	315.4	567.8	0.626	0.552	8.434	7.431	3.9292E-04	4.1507E-04	0.226
25	25	315.2	567.4	0.643	0.567	E.436	7.433	4.0340E-04	4.2613E-04	0.227
26	1C3	318.8	573.8	0.572	0.5C4	E.398	7.4CC	3.6019E-04	3.8058E-04	0.228
27	1C5	319.4	574.9	0.565	C.497	8.392	7.394	3.5605E-04	3.7623E-04	C.230
28	107	318.6	573.5	0.517	0.456	8.400	7.402	3.2603E-04	3.4448E-04	0.180
29	1C8	317.6	571.7	0.4C4	0.356	E.411	7.411	2.5417E-04	2.6854E-04	0.084
30	11C	316.3	569.4	C.265	C.233	E.424	7.423	1.6639E-04	1.7578E-04	0.338
31	2C3	316.7	570.1	0.485	C.427	8.420	7.420	3.0449E-04	3.2168E-04	C.154
32	2C5	317.C	570.6	0.482	0.424	8.417	7.417	3.0276E-04	3.1986E-04	0.152
33	207	316.6	569.8	0.437	0.385	E.422	7.421	2.7482E-04	2.9033E-04	0.113
34	2C8	316.C	568.8	0.362	C.319	E.428	7.426	2.2753E-04	2.4036E-04	0.049
35	21C	315.1	567.2	0.246	C.217	8.437	7.434	1.5425E-04	1.6294E-04	C.267
36	3C1	314.6	566.2	0.409	0.360	8.443	7.439	2.5618E-04	2.7060E-04	0.031
37	302	315.1	567.1	0.430	0.379	E1438	7.435	2.6948E-04	2.8466E-04	0.076
38	3C3	315.6	567.9	C.437	C.385	8.433	7.430	2.7404E-04	2.8949E-04	0.077
39	3C4	315.7	568.3	0.429	C.378	8.431	7.429	2.6898E-04	2.8415E-04	C.C77
40	3C5	315.8	568.4	0.411	0.362	8.430	7.428	2.5814E-04	2.7269E-04	0.069
41	306	314.6	566.3	0.4C6	0.358	E.443	7.439	2.543BE-04	2.6870E-04	0.108
42	3C7	314.1	565.3	C.367	C.324	8.448	7.444	2.2997E-04	2.4291E-04	0.004
43	3C8	313.7	564.7	0.302	C.266	8.452	7.447	1.8901E-04	1.9964E-04	-C.C49
44	3C9	313.3	564.0	0.250	C.220	8.456	7.451	1.5652E-04	1.6531E-04	0.114
45	310	313.1	563.5	0.2C5	0.181	E.459	7.453	1.2837E-04	1.3558E-04	0.271
46	4C1	312.7	562.8	C.383	C.336	E.463	7.457	2.3948E-04	2.5292E-04	-0.032
47	4C2	313.2	563.7	0.420	C.370	8.458	7.452	2.6260E-04	2.7735E-04	0.040
48	403	313.5	564.3	0.424	0.374	8.454	7.449	2.6537E-04	2.8028E-04	0.050
49	4C4	313.6	564.6	0.415	0.365	E.453	7.448	2.5952E-04	2.7411E-04	0.038
50	4C5	313.E	564.8	0.413	C.364	8.451	7.447	2.5862E-04	2.7316E-04	0.038
51	4C6	313.5	564.2	C.388	C.342	8.455	7.450	2.4279E-04	2.5644E-04	-C.C04
52	4C7	313.1	563.5	0.368	0.324	8.459	7.453	2.3018E-04	2.4311E-04	0.004
53	4C8	312.3	562.1	0.298	0.263	E.467	7.460	1.8629E-04	1.9674E-04	-0.006
54	4C9	312.7	562.9	C.250	C.220	E.463	7.457	1.5597E-04	1.6473E-04	0.174
55	41C	312.5	562.6	C.191	C.168	E.464	7.458	1.1947E-04	1.2617E-04	0.359
56	501	312.5	562.5	0.402	0.355	8.465	7.459	2.5144E-04	2.6555E-04	-0.038
57	502	312.8	563.1	0.440	0.387	E.461	7.456	2.7482E-04	2.9025E-04	0.028
58	503	313.2	563.8	C.449	0.396	E.457	7.452	2.8C90E-04	2.9659E-04	0.067
59	504	313.5	564.2	C.433	C.382	8.455	7.450	2.7C93E-04	2.8616E-04	C.C52
60	505	313.9	564.3	0.401	0.354	8.454	7.449	2.5115E-04	2.6527E-04	C.036
61	506	313.4	564.C	0.380	0.335	E.456	7.451	2.3763E-04	2.5099E-04	-0.005
62	507	312.9	563.1	C.330	C.291	8.461	7.455	2.0620E-04	2.1778E-04	-0.043
63	508	312.C	561.5	C.230	C.2C2	8.470	7.464	1.4334E-04	1.5144E-04	-0.C95
64	509	310.7	559.2	0.136	0.120	8.484	7.475	8.4610E-05	8.9347E-05	0.033
65	510	311.C	561.9	0.192	0.170	E.47C	7.464	1.2016E-04	1.2690E-04	0.350

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3612E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.842	3.795	3.695
PT2/PT1	5.045E-02	4.984E-02	4.852E-02
TEMP(DEG R)	1982.1	2020.1	2083.6
TT2/TT1	0.9930	1.0120	1.0438

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 192 RUN NO. 5 FRAME 25 TO 82 CONSTANT SST 211

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 0 1	5.10	C.9[illegible]E 06	149.31	2043.94	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	149.490	2045.226	0.161	0.091	696.505	-0.283	17.6089
0.070	149.490	2045.099	0.161	0.091	696.505	-0.270	17.6125
0.140	149.490	2044.839	0.155	0.127	695.546	-0.283	17.6129
0.210	149.307	2043.933	0.155	0.435	694.587	-0.309	17.6129
0.280	149.307	2044.319	0.168	1.526	696.505	-0.309	17.6048
0.350	149.490	2045.228	0.575	3.227	743.564	-0.296	17.6125
0.420	149.490	2044.969	2.259	4.745	980.611	-0.283	17.6089
0.490	149.490	2044.711	4.579	6.282	1366.867	-0.296	17.6089
0.560	149.490	2043.675	6.182	7.261	1690.524	-0.322	17.6089
0.630	149.490	2044.191	7.152	7.630	1860.330	-0.309	17.6089
0.700	149.490	2045.488	7.651	7.630	1915.940	-0.296	18.6694
0.770	149.490	2045.228	7.851	7.434	1927.918	-0.283	34.9274
0.840	149.490	2044.971	7.825	7.272	1941.855	-0.309	34.9234
0.910	149.307	2043.936	7.754	7.267	1958.394	-0.322	34.9274
0.980	149.307	2044.322	7.709	7.350	1968.950	-0.335	34.9234
1.050	149.490	2045.490	7.688	7.460	1982.112	-0.309	34.9274
1.120	149.490	2044.970	7.651	7.569	1997.204	-0.309	34.9234
1.190	149.490	2044.453	7.656	7.653	2010.290	-0.296	34.9234
1.260	149.490	2044.066	7.701	7.686	2020.733	-0.322	34.9274
1.330	149.307	2044.453	7.701	7.714	2027.248	-0.322	34.9274
1.400	149.307	2045.490	7.701	7.742	2027.899	-0.296	34.9315
1.470	149.490	2044.972	7.709	7.798	2031.804	-0.283	34.9274
1.540	149.490	2044.451	7.701	7.840	2036.355	-0.309	34.9274
1.610	149.307	2043.806	7.693	7.865	2040.252	-0.322	34.9274
1.680	149.124	2044.191	7.651	7.882	2043.498	-0.322	34.9274
1.750	149.307	2045.230	7.688	7.904	2045.444	-0.322	34.9274
1.820	149.490	2044.711	7.685	7.918	2040.902	-0.283	34.9234
1.890	149.307	2044.324	7.675	7.935	2040.902	-0.309	34.9274
1.960	149.124	2043.419	7.685	7.949	2047.390	-0.322	34.9274
2.030	149.124	2043.804	7.683	7.949	2053.870	-0.335	34.9274
2.100	149.307	2044.971	7.688	7.955	2056.459	-0.322	34.9315
2.170	149.490	2044.453	7.651	7.966	2059.047	-0.283	34.9234
2.240	149.490	2043.677	7.693	7.994	2063.573	-0.296	34.9274
2.310	149.124	2043.549	7.696	8.016	2070.031	-0.322	34.9234
2.380	149.124	2043.675	7.683	8.033	2062.927	-0.322	34.9274
2.450	149.307	2044.841	7.675	8.039	2047.390	-0.322	34.9274
2.520	149.490	2044.453	7.685	8.036	2044.796	-0.296	34.9234
2.590	149.490	2044.194	7.675	8.022	2050.631	-0.296	34.9274
2.660	149.124	2043.806	7.669	8.019	2055.812	-0.322	34.9274
2.730	149.124	2043.767	7.664	8.013	2058.400	-0.322	34.9274
2.800	149.124	2044.583	7.672	8.033	2064.865	-0.322	34.9315
2.870	149.490	2044.582	7.685	8.050	2070.031	-0.283	34.9234
2.940	149.307	2043.675	7.675	8.050	2073.257	-0.296	34.9274
3.010	149.124	2043.288	7.675	8.050	2069.386	-0.335	34.9234
3.080	149.307	2043.157	7.659	8.067	2060.341	-0.335	34.9234
3.150	149.307	2044.582	7.659	8.078	2055.812	-0.309	34.9315
3.220	149.490	2044.842	7.672	8.075	2057.106	-0.296	34.9234
3.290	149.490	2043.937	7.675	8.075	2062.280	-0.283	34.9315
3.500	149.124	2044.841	7.675	8.095	2064.865	-0.322	34.9315
3.570	149.490	2044.841	7.675	8.106	2066.803	-0.283	34.9274
3.640	149.307	2044.453	7.672	8.097	2063.740	-0.296	34.9315
3.710	148.341	2043.935	7.669	8.086	2064.865	-0.335	34.9234
3.780	148.341	2043.153	7.662	8.086	2058.400	-0.335	34.9234
3.850	149.124	2044.970	7.662	8.078	2055.812	-0.322	34.9274
3.920	149.490	2044.969	7.672	8.078	2058.400	-0.296	34.9234
3.990	149.307	2044.712	7.675	8.075	2064.865	-0.296	34.9315

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	9.6885E 06	9.6885E 05	0.305	10.16	1139.5	0.12011E 07	0.3048	1.000	RUN NO.	5
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.6885E 05	9.6885E 05	1.000	149.31	2049.9	516.49	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.262	0.2067	0.2067	0.2361	0.2492	34	208	0.263	0.0392	0.0392	0.0448	0.0473
2	2	0.263	0.0000	0.0000	0.0000	0.0000	35	210	0.262	0.0271	0.0271	0.0310	0.0327
3	3	0.262	0.1850	0.1850	0.2114	0.2231	36	301	0.262	0.0395	0.0395	0.0452	0.0477
4	4	0.262	0.1753	0.1753	0.2002	0.2113	37	302	0.263	0.0429	0.0429	0.0490	0.0517
5	5	0.262	0.1541	0.1541	0.1761	0.1859	38	303	0.263	0.0433	0.0433	0.0495	0.0523
6	6	0.262	0.1453	0.1453	0.1660	0.1752	39	304	0.264	0.0416	0.0416	0.0476	0.0502
7	7	0.262	0.1223	0.1223	0.1397	0.1475	40	305	0.264	0.0396	0.0396	0.0452	0.0477
8	8	0.262	0.0967	0.0967	0.1105	0.1167	41	306	0.262	0.0388	0.0388	0.0420	0.0444
9	9	0.262	0.0781	0.0781	0.0893	0.0942	42	307	0.262	0.0330	0.0330	0.0377	0.0398
10	10	0.262	0.0633	0.0633	0.0724	0.0764	43	308	0.261	0.0275	0.0275	0.0314	0.0331
11	11	0.262	0.0514	0.0514	0.0587	0.0620	44	309	0.261	0.0221	0.0221	0.0252	0.0266
12	12	0.262	0.0443	0.0443	0.0506	0.0534	45	310	0.261	0.0182	0.0182	0.0208	0.0219
13	13	0.262	0.0402	0.0402	0.0459	0.0485	46	401	0.260	0.0832	0.0832	0.0950	0.1003
14	14	0.262	0.0438	0.0438	0.0501	0.0529	47	402	0.261	0.0910	0.0910	0.1040	0.1097
15	15	0.262	0.0442	0.0442	0.0505	0.0534	48	403	0.262	0.0929	0.0929	0.1061	0.1120
16	16	0.262	0.0480	0.0480	0.0548	0.0578	49	404	0.262	0.0926	0.0926	0.1058	0.1117
17	17	0.262	0.0492	0.0492	0.0562	0.0593	50	405	0.262	0.0915	0.0915	0.1045	0.1103
18	18	0.263	0.0509	0.0509	0.0581	0.0614	51	406	0.262	0.0869	0.0869	0.0993	0.1048
19	19	0.262	0.0534	0.0534	0.0610	0.0643	52	407	0.262	0.0778	0.0778	0.0888	0.0938
20	20	0.262	0.0545	0.0545	0.0622	0.0657	53	408	0.260	0.0659	0.0659	0.0753	0.0794
21	21	0.263	0.0563	0.0563	0.0643	0.0679	54	409	0.261	0.0542	0.0542	0.0619	0.0653
22	22	0.263	0.0598	0.0598	0.0683	0.0721	55	410	0.261	0.0397	0.0397	0.0454	0.0479
23	23	0.262	0.0618	0.0618	0.0706	0.0745	56	501	0.260	0.1402	0.1402	0.1601	0.1690
24	24	0.262	0.0646	0.0646	0.0738	0.0779	57	502	0.261	0.1529	0.1529	0.1747	0.1843
25	25	0.262	0.0664	0.0664	0.0759	0.0801	58	503	0.262	0.1540	0.1540	0.1759	0.1857
26	103	0.266	0.0609	0.0609	0.0697	0.0736	59	504	0.262	0.1348	0.1348	0.1768	0.1866
27	105	0.267	0.0596	0.0596	0.0681	0.0719	60	505	0.262	0.1491	0.1491	0.1704	0.1798
28	107	0.266	0.0543	0.0543	0.0621	0.0656	61	506	0.262	0.1447	0.1447	0.1653	0.1744
29	108	0.263	0.0421	0.0421	0.0481	0.0508	62	507	0.261	0.1312	0.1312	0.1499	0.1582
30	110	0.264	0.0282	0.0282	0.0322	0.0340	63	508	0.261	0.1042	0.1042	0.1190	0.1256
31	203	0.264	0.0534	0.0534	0.0610	0.0644	64	509	0.260	0.0681	0.0778	0.0778	0.0821
32	205	0.264	0.0537	0.0537	0.0613	0.0648	65	510	0.260	0.0672	0.0672	0.0768	0.0810
33	207	0.264	0.0471	0.0471	0.0538	0.0568							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAR/HT	TEST NO. 182
5.10	9.17856E 06	9.69852E 05	0.309	1139.9	0.12011E 07	0.3048	1.000	RUN NO. 5
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.79859E 05	9.60852E 05	4.600	2043.9	516.49	1.0000	1.000	

CHAN	T/C	T(DEG R)	T(DEG F)	H(KJ/KG)	H(BTU/LB)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.90)	ST(0.74)	TIME(SEC)
1	1	512.8	563.1	2.230	2.639	12.272	10.813	7.9353E-04	8.3754E-04	0.394
2	2	338.7	609.7	0.000	0.000	11.889	10.476	1.9339E-16	2.0448E-16	*******
3	3	313.3	563.3	2.269	1.599	12.265	10.807	7.1034E-04	7.4980E-04	0.389
4	4	313.3	564.0	2.149	1.894	12.264	10.806	6.7291E-04	7.1030E-04	0.383
5	5	313.7	564.7	1.989	1.665	12.258	10.801	5.9172E-04	6.2461E-04	0.374
6	6	313.3	563.9	1.782	1.570	12.265	10.807	5.5780E-04	5.8874E-04	0.366
7	7	313.2	563.8	1.500	1.322	12.266	10.808	4.6460E-04	4.9568E-04	0.346
8	8	313.8	564.9	1.186	1.045	12.257	10.800	3.7148E-04	3.9214E-04	0.307
9	9	313.3	563.9	0.958	0.844	12.265	10.807	3.0600E-04	3.1667E-04	0.240
10	10	313.1	563.7	0.777	0.685	12.267	10.809	2.4317E-04	2.5668E-04	0.192
11	11	313.2	563.8	0.631	0.556	12.266	10.808	1.9738E-04	2.0835E-04	0.069
12	12	313.2	563.8	0.544	0.479	12.266	10.808	1.7013E-04	1.7958E-04	-0.007
13	13	313.9	565.0	0.493	0.434	12.256	10.800	1.5432E-04	1.6290E-04	-0.035
14	14	313.3	564.0	0.538	0.474	12.265	10.807	1.6830E-04	1.7765E-04	0.012
15	15	313.2	563.8	0.543	0.478	12.266	10.808	1.6988E-04	1.7932E-04	0.041
16	16	313.3	563.9	0.588	0.518	12.266	10.808	1.8419E-04	1.9442E-04	0.090
17	17	313.4	564.1	0.603	0.531	12.263	10.806	1.8874E-04	1.9923E-04	0.078
18	18	314.1	565.4	0.623	0.549	12.253	10.796	1.9539E-04	2.0626E-04	0.096
19	19	313.5	564.2	0.654	0.577	12.262	10.805	2.0488E-04	2.1626E-04	0.121
20	20	313.6	564.4	0.668	0.588	12.261	10.803	2.0907E-04	2.2069E-04	0.136
21	21	314.8	566.7	0.689	0.607	12.242	10.787	2.1609E-04	2.2812E-04	0.139
22	22	314.0	565.2	0.733	0.646	12.254	10.798	2.2962E-04	2.4239E-04	0.148
23	23	313.7	564.7	0.757	0.667	12.259	10.801	2.3712E-04	2.5030E-04	0.157
24	24	313.7	564.6	0.791	0.697	12.259	10.802	2.4788E-04	2.6165E-04	0.165
25	25	313.2	563.8	0.815	0.718	12.266	10.808	2.5506E-04	2.6923E-04	0.170
26	103	318.1	572.5	0.743	0.655	12.194	10.745	2.3403E-04	2.4711E-04	0.164
27	105	319.0	574.3	0.725	0.639	12.180	10.732	2.2881E-04	2.4162E-04	0.161
28	107	319.1	572.6	0.662	0.584	12.194	10.744	2.0861E-04	2.2028E-04	0.112
29	108	316.7	570.1	0.514	0.453	12.214	10.762	1.6171E-04	1.7074E-04	0.009
30	110	315.2	567.4	0.345	0.304	12.237	10.782	1.0812E-04	1.1414E-04	0.276
31	203	315.3	567.6	0.653	0.575	12.235	10.780	2.0492E-04	2.1634E-04	0.098
32	205	315.8	568.5	0.656	0.578	12.227	10.774	2.0611E-04	2.1760E-04	0.115
33	207	315.5	567.8	0.576	0.508	12.233	10.779	1.8083E-04	1.9090E-04	0.055
34	208	314.8	566.6	0.480	0.423	12.243	10.788	1.5060E-04	1.5898E-04	-0.018
35	210	313.6	564.6	0.333	0.293	12.260	10.803	1.0422E-04	1.1001E-04	0.209
36	301	313.4	564.2	0.485	0.427	12.263	10.805	1.5185E-04	1.6029E-04	-0.127
37	302	314.2	565.6	0.525	0.463	12.251	10.795	1.6462E-04	1.7377E-04	-0.044
38	303	315.0	567.0	0.531	0.467	12.240	10.785	1.6645E-04	1.7572E-04	-0.043
39	304	315.3	567.6	0.509	0.449	12.235	10.781	1.5991E-04	1.6882E-04	-0.058
40	305	315.5	567.9	0.484	0.427	12.233	10.779	1.5197E-04	1.6044E-04	-0.067
41	306	313.4	564.1	0.451	0.397	12.263	10.805	1.4121E-04	1.4906E-04	-0.083
42	307	313.0	563.5	0.405	0.357	12.269	10.810	1.2677E-04	1.3381E-04	-0.225
43	308	312.5	562.4	0.337	0.297	12.277	10.818	1.0548E-04	1.1133E-04	-0.285
44	309	312.0	561.5	0.271	0.239	12.285	10.825	8.4844E-05	8.9549E-05	-0.116
45	310	311.6	560.8	0.223	0.197	12.290	10.829	6.9759E-05	7.3667E-05	C.082
46	401	311.4	560.4	1.023	0.901	12.294	10.832	3.1930E-04	3.3699E-04	C.201
47	402	312.4	562.3	1.118	0.985	12.278	10.819	3.4944E-04	3.6883E-04	C.256
48	403	312.9	563.3	1.140	1.004	12.270	10.812	3.5666E-04	3.7646E-04	0.261
49	404	313.3	563.9	1.136	1.001	12.265	10.807	3.5569E-04	3.7545E-04	C.261
50	405	313.5	564.3	1.121	0.988	12.262	10.804	3.5116E-04	3.7068E-04	C.256
51	406	313.2	563.8	1.066	0.939	12.266	10.808	3.3365E-04	3.5218E-04	C.252
52	407	312.8	563.0	0.954	0.841	12.272	10.814	2.9856E-04	3.1513E-04	0.203
53	408	311.5	560.7	0.810	0.714	12.291	10.830	2.5303E-04	2.6705E-04	C.195
54	409	311.6	561.3	0.666	0.586	12.287	10.826	2.0795E-04	2.1948E-04	C.333
55	410	311.5	560.8	0.488	0.430	12.291	10.830	1.5256E-04	1.6101E-04	0.504
56	501	311.4	560.5	1.723	1.518	12.293	10.832	5.3813E-04	5.6795E-04	0.277
57	502	312.1	561.7	1.578	1.655	12.283	10.823	5.8705E-04	6.1961E-04	0.328
58	503	312.8	563.0	1.890	1.666	12.273	10.814	5.9136E-04	6.2419E-04	C.346
59	504	313.2	563.8	1.698	1.673	12.266	10.808	5.9417E-04	6.2718E-04	0.363
60	505	313.3	564.0	1.729	1.612	12.264	10.806	5.7261E-04	6.0442E-04	C.375
61	506	313.3	563.9	1.774	1.563	12.265	10.807	5.5944E-04	5.8630E-04	C.355
62	507	312.7	562.8	1.610	1.419	12.274	10.815	5.0375E-04	5.3171E-04	C.344
63	508	311.9	561.4	1.486	1.128	12.286	10.825	4.0011E-04	4.2229E-04	0.397
64	509	310.7	559.3	0.938	0.759	12.303	10.841	2.6151E-04	2.7598E-04	C.543
65	510	311.1	560.0	0.976	0.728	12.295	10.833	2.5805E-04	2.7234E-04	C.603

EXC = ST * AREA DENSITY-VELOCITY PRODUCT = 1.6214 * 1 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.419	7.675	6.075
P12/PT1	5.972E-02	5.140E-02	5.408E-02
TEMP(DEG R)	2021.4	2064.9	2133.5
TT2/TT1	0.9890	1.0102	1.0438

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 6 FRAME 26 TO 82 CONSTANT SET 111

REF1	REF2	REF3	A	B	C	MACH	PE/FT
0.0	0.0	0.0	0	0	8	1 5.10	0.4950E 06

PT(PSI)	TT(DEG R)	RS(FT)
76.87	2053.28	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	77.053	2053.410	0.110	0.107	655.600	-0.289	17.6111
0.070	76.870	2052.893	0.107	0.107	655.600	-0.276	17.6071
0.140	76.687	2053.928	0.105	0.149	655.600	-0.276	17.6111
0.210	76.870	2053.023	0.107	0.451	655.600	-0.289	17.6111
0.280	76.870	2053.412	0.163	1.153	663.496	-0.276	17.6152
0.350	76.870	2053.281	0.590	1.994	759.534	-0.289	17.6111
0.420	76.870	2052.892	1.655	2.783	1043.007	-0.289	17.6071
0.490	76.870	2053.281	2.743	3.468	1406.905	-0.289	17.6111
0.560	76.870	2053.410	3.397	3.832	1688.437	-0.302	17.6152
0.630	76.870	2053.541	3.784	3.971	1831.275	-0.302	17.6152
0.700	76.870	2053.023	3.966	3.955	1878.488	-0.289	32.2548
0.770	76.870	2052.762	4.035	3.854	1888.548	-0.276	34.9118
0.840	76.870	2053.023	4.030	3.781	1895.912	-0.315	34.9199
0.910	76.870	2053.279	4.022	3.776	1912.608	-0.315	34.9279
0.980	76.870	2053.541	4.008	3.818	1934.560	-0.315	34.9279
1.050	76.870	2053.279	4.001	3.860	1951.785	-0.289	34.9239
1.120	77.053	2052.499	3.995	3.893	1961.035	-0.289	34.9199
1.190	76.870	2053.279	3.982	3.918	1968.291	-0.302	34.9279
1.260	76.870	2052.893	3.953	3.944	1974.877	-0.315	34.9320
1.330	76.870	2053.151	4.008	3.966	1980.711	-0.315	34.9320
1.400	76.870	2052.892	4.003	3.985	1997.860	-0.289	34.9279
1.470	76.870	2052.369	3.995	4.005	2001.134	-0.302	34.9199
1.540	76.870	2053.020	3.993	4.013	2005.060	-0.289	34.9279
1.610	76.870	2052.762	3.993	4.019	2011.596	-0.315	34.9320
1.680	77.053	2053.150	3.993	4.013	2016.819	-0.315	34.9320
1.750	76.322	2052.762	4.001	4.030	2026.597	-0.289	34.9279
1.820	76.870	2052.111	3.953	4.033	2031.804	-0.289	34.9199
1.890	76.870	2052.761	3.982	4.041	2033.104	-0.302	34.9279
1.960	76.870	2052.632	3.993	4.055	2033.755	-0.315	34.9320
2.030	76.870	2052.634	3.995	4.058	2038.304	-0.315	34.9320
2.100	76.870	2052.632	4.008	4.055	2046.742	-0.302	34.9279
2.170	76.870	2051.980	4.022	4.058	2058.400	-0.302	34.9239
2.240	76.870	2052.503	4.022	4.067	2066.803	-0.289	34.9279
2.310	76.870	2052.503	4.022	4.069	2073.257	-0.302	34.9320
2.380	76.870	2052.503	4.016	4.081	2077.125	-0.302	34.9279
2.450	76.870	2052.503	3.993	4.081	2070.677	-0.289	34.9279
2.520	76.870	2051.980	3.982	4.086	2063.573	-0.289	34.9239
2.590	76.322	2052.373	4.006	4.086	2065.911	-0.315	34.9279
2.660	76.870	2051.851	4.008	4.086	2073.257	-0.302	34.9320
2.730	76.870	2052.373	4.006	4.083	2073.257	-0.315	34.9320
2.800	76.870	2051.980	4.003	4.083	2071.967	-0.302	34.9239
2.870	76.870	2051.592	3.993	4.089	2070.031	-0.289	34.9239
2.940	76.322	2052.243	3.955	4.089	2068.740	-0.302	34.9279
3.010	76.322	2052.243	4.006	4.092	2073.257	-0.302	34.9279
3.080	76.322	2052.501	4.008	4.092	2074.703	-0.302	34.9320
3.150	76.870	2052.243	4.001	4.095	2082.922	-0.302	34.9239
3.220	76.322	2051.721	3.995	4.097	2077.770	-0.302	34.9239
3.290	76.322	2051.983	3.995	4.097	2075.192	-0.302	34.9279
3.360	76.322	2052.113	3.982	4.097	2075.192	-0.315	34.9320
3.430	76.322	2052.372	3.974	4.097	2070.677	-0.302	34.9279
3.500	76.322	2051.721	3.977	4.097	2066.803	-0.289	34.9279
3.570	76.870	2051.591	3.979	4.097	2066.803	-0.289	34.9239
3.640	76.322	2051.591	3.982	4.111	2069.386	-0.289	34.9279
3.710	76.322	2051.591	3.982	4.117	2071.967	-0.315	34.9279
3.780	76.322	2051.849	3.982	4.120	2072.612	-0.302	34.9279
3.850	76.322	2052.108	3.995	4.117	2075.192	-0.302	34.9320
3.920	76.870	2051.075	3.993	4.111	2078.414	-0.289	34.9239

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.82392E 06	4.9498E 05	0.305	5.23	1140.7	0.12071E 07	0.3048	1.000	RUN NO.	6
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)		RS(FT)	HAW/HT		
5.10	4.9498E 05	4.9498E 05	1.000	76.87	2053.3	519.09	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.261	0.0770	0.0770	0.0880	0.0929	39	39	0.262	0.0184	0.0184	0.0210	0.0222
2	2	0.282	0.0000	0.0000	0.0000	0.0000	40	40	0.262	0.0169	0.0169	0.0193	0.0204
3	3	0.261	0.0695	0.0695	0.0794	0.0838	41	41	0.262	0.0169	0.0169	0.0194	0.0204
4	4	0.261	0.0672	0.0672	0.0768	0.0810	42	42	0.262	0.0184	0.0184	0.0211	0.0222
5	5	0.261	0.0644	0.0644	0.0736	0.0777	43	43	0.263	0.0180	0.0180	0.0206	0.0218
6	6	0.261	0.0633	0.0633	0.0723	0.0763	44	44	0.263	0.0192	0.0192	0.0219	0.0231
7	7	0.261	0.0609	0.0609	0.0696	0.0734	45	45	0.263	0.0197	0.0197	0.0225	0.0237
8	8	0.262	0.0580	0.0580	0.0663	0.0700	46	46	0.263	0.0210	0.0210	0.0240	0.0253
9	9	0.262	0.0567	0.0567	0.0648	0.0684	47	47	0.263	0.0209	0.0209	0.0239	0.0252
10	10	0.262	0.0562	0.0562	0.0642	0.0677	48	48	0.263	0.0222	0.0222	0.0253	0.0267
11	11	0.262	0.0536	0.0536	0.0613	0.0647	49	49	0.263	0.0218	0.0218	0.0249	0.0263
12	12	0.262	0.0533	0.0533	0.0609	0.0643	50	50	0.262	0.0261	0.0261	0.0298	0.0315
13	13	0.263	0.0511	0.0511	0.0583	0.0616	51	51	0.259	0.0039	0.0039	0.0044	0.0047
14	14	0.263	0.0529	0.0529	0.0604	0.0638	52	52	0.259	0.0019	0.0019	0.0022	0.0023
15	15	0.263	0.0516	0.0516	0.0589	0.0622	53	53	0.259	0.0044	0.0044	0.0050	0.0053
16	16	0.263	0.0542	0.0542	0.0619	0.0653	54	54	0.260	0.0051	0.0051	0.0058	0.0061
17	17	0.264	0.0592	0.0592	0.0677	0.0714	55	55	0.260	0.0045	0.0045	0.0051	0.0054
18	18	0.264	0.0619	0.0619	0.0708	0.0747	56	56	0.260	0.0035	0.0035	0.0040	0.0042
19	19	0.265	0.0636	0.0636	0.0727	0.0768	57	57	0.260	0.0037	0.0037	0.0042	0.0045
20	20	0.265	0.0655	0.0655	0.0748	0.0790	58	58	0.260	0.0035	0.0035	0.0040	0.0042
21	21	0.265	0.0685	0.0685	0.0784	0.0827	59	59	0.260	0.0020	0.0020	0.0022	0.0024
22	22	0.265	0.0703	0.0703	0.0803	0.0848	60	60	0.260	0.0004	0.0004	0.0005	0.0005
23	23	0.265	0.0714	0.0714	0.0816	0.0861	61	61	0.260	-0.0009	-0.0009	-0.0010	-0.0010
24	24	0.265	0.0747	0.0747	0.0854	0.0902	62	62	0.260	-0.0043	-0.0043	-0.0050	-0.0052
25	25	0.264	0.0771	0.0771	0.0882	0.0931	63	63	0.260	-0.0093	-0.0093	-0.0106	-0.0111
26	26	0.261	0.0247	0.0247	0.0282	0.0298	64	64	0.259	-0.0155	-0.0155	-0.0177	-0.0187
27	27	0.261	0.0267	0.0267	0.0305	0.0322	65	65	0.261	0.0026	0.0026	0.0030	0.0032
28	28	0.261	0.0245	0.0245	0.0280	0.0296	66	66	0.261	0.0035	0.0035	0.0040	0.0042
29	29	0.261	0.0249	0.0249	0.0284	0.0300	67	67	0.262	0.0046	0.0046	0.0052	0.0055
30	30	0.261	0.0237	0.0237	0.0271	0.0286	68	68	0.262	0.0029	0.0029	0.0033	0.0035
31	31	0.261	0.0218	0.0218	0.0249	0.0263	69	69	0.262	0.0018	0.0018	0.0021	0.0022
32	32	0.261	0.0206	0.0206	0.0236	0.0249	70	70	0.262	0.0035	0.0035	0.0040	0.0042
33	33	0.261	0.0202	0.0202	0.0231	0.0244	71	71	0.263	0.0053	0.0053	0.0061	0.0064
34	34	0.261	0.0200	0.0200	0.0229	0.0241	72	72	0.263	0.0073	0.0073	0.0084	0.0088
35	35	0.261	0.0190	0.0190	0.0216	0.0229	73	73	0.262	0.0014	0.0014	0.0016	0.0017
36	36	0.262	0.0191	0.0191	0.0218	0.0230	74	74	0.262	0.0029	0.0029	0.0033	0.0035
37	37	0.262	0.0187	0.0187	0.0214	0.0226	75	75	0.262	0.0006	0.0006	0.0007	0.0008
38	38	0.262	0.0195	0.0195	0.0223	0.0235							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6234E 06	4.9498E 05	0.305	5.23	1140.7	0.12071E 07	0.3048	1.000	RUN NO.	6
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	4.9498E 05	4.9498E 05	1.000	76.87	2053.3	519.09	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	313.6	564.4	0.082	0.001	8.857	7.804	4.1360E-04	4.3653E-04	0.237
2	2	318.7	609.7	0.000	0.000	8.590	7.569	1.7988E-15	1.9021E-15	*******
3	3	314.0	565.3	0.615	0.542	8.852	7.800	3.7294E-04	3.9369E-04	0.205
4	4	314.1	565.4	0.595	0.524	8.851	7.799	3.6075E-04	3.8077E-04	0.175
5	5	314.3	565.7	0.570	0.502	8.849	7.798	3.4580E-04	3.6500E-04	0.149
6	6	314.1	565.5	0.560	0.494	8.851	7.799	3.3977E-04	3.5862E-04	0.139
7	7	314.3	565.7	0.539	0.475	8.850	7.798	3.2692E-04	3.4507E-04	0.118
8	8	314.6	566.3	0.513	0.452	8.846	7.794	3.1154E-04	3.2884E-04	0.103
9	9	314.6	566.3	0.502	0.442	8.846	7.794	3.0457E-04	3.2148E-04	0.092
10	10	314.6	566.3	0.497	0.438	8.846	7.794	3.0157E-04	3.1831E-04	0.090
11	11	314.9	566.8	0.474	0.418	8.843	7.792	2.8797E-04	3.0397E-04	0.076
12	12	315.1	567.2	0.471	0.415	8.840	7.790	2.8621E-04	3.0212E-04	0.063
13	13	315.6	568.2	0.451	0.398	8.835	7.785	2.7418E-04	2.8943E-04	0.045
14	14	315.9	568.5	0.467	0.411	8.833	7.783	2.8387E-04	2.9967E-04	0.038
15	15	316.1	569.0	0.455	0.401	8.830	7.780	2.7686E-04	2.9227E-04	0.064
16	16	316.6	569.9	0.478	0.421	8.825	7.776	2.9083E-04	3.0702E-04	0.101
17	17	317.1	570.8	0.522	0.460	8.819	7.771	3.1797E-04	3.3569E-04	0.140
18	18	317.7	571.8	0.546	0.481	8.813	7.766	3.3242E-04	3.5096E-04	0.164
19	19	318.0	572.4	0.561	0.494	8.810	7.762	3.4179E-04	3.6086E-04	0.187
20	20	318.2	572.8	0.577	0.508	8.807	7.760	3.5159E-04	3.7122E-04	0.199
21	21	318.7	573.6	0.603	0.532	8.802	7.756	3.6813E-04	3.8868E-04	0.208
22	22	318.4	573.2	0.619	0.545	8.805	7.759	3.7730E-04	3.9836E-04	0.216
23	23	318.3	572.9	0.628	0.554	8.807	7.760	3.8322E-04	4.0461E-04	0.220
24	24	318.2	572.8	0.658	0.580	8.807	7.760	4.0134E-04	4.2374E-04	0.226
25	25	317.5	571.5	0.680	0.599	8.815	7.767	4.1422E-04	4.3731E-04	0.231
26	26	313.3	564.0	0.219	0.193	8.859	7.806	1.3269E-04	1.4004E-04	0.522
27	27	313.6	564.5	0.236	0.208	8.856	7.804	1.4319E-04	1.5113E-04	0.469
28	28	313.7	564.6	0.217	0.192	8.856	7.803	1.3178E-04	1.3909E-04	0.458
29	29	313.8	564.8	0.220	0.194	8.855	7.802	1.3355E-04	1.4095E-04	0.463
30	30	313.8	564.9	0.210	0.185	8.854	7.802	1.2728E-04	1.3434E-04	0.426
31	31	313.8	564.9	0.193	0.170	8.854	7.801	1.1706E-04	1.2355E-04	0.409
32	32	313.7	564.7	0.183	0.161	8.855	7.803	1.1073E-04	1.1687E-04	0.407
33	33	314.2	565.5	0.179	0.158	8.851	7.799	1.0868E-04	1.1471E-04	0.390
34	34	314.1	565.5	0.177	0.156	8.851	7.799	1.0747E-04	1.1343E-04	0.369
35	35	314.2	565.5	0.168	0.148	8.850	7.798	1.0174E-04	1.0739E-04	0.385
36	36	314.3	565.8	0.169	0.149	8.849	7.797	1.0230E-04	1.0798E-04	0.382
37	37	314.4	565.9	0.166	0.146	8.848	7.797	1.0042E-04	1.0599E-04	0.370
38	38	314.9	566.9	0.172	0.152	8.842	7.791	1.0459E-04	1.1040E-04	0.393
39	39	315.0	566.9	0.163	0.143	8.842	7.791	9.8792E-05	1.0428E-04	0.358
40	40	315.3	567.5	0.150	0.132	8.839	7.788	9.0828E-05	9.5877E-05	0.354
41	41	314.5	566.1	0.150	0.132	8.847	7.795	9.0990E-05	9.6043E-05	0.503
42	42	315.1	567.1	0.163	0.144	8.841	7.790	9.8955E-05	1.0445E-04	0.455
43	43	315.7	568.2	0.159	0.140	8.835	7.785	9.6848E-05	1.0223E-04	0.499
44	44	315.8	568.4	0.169	0.149	8.833	7.783	1.0293E-04	1.0866E-04	0.496
45	45	316.0	568.7	0.174	0.153	8.831	7.782	1.0567E-04	1.1155E-04	0.529
46	46	316.5	569.7	0.185	0.163	8.826	7.777	1.1274E-04	1.1901E-04	0.530
47	47	316.2	569.2	0.185	0.163	8.829	7.779	1.1224E-04	1.1849E-04	0.524
48	48	316.0	568.8	0.196	0.172	8.831	7.781	1.1898E-04	1.2560E-04	0.539
49	49	315.9	568.5	0.193	0.170	8.833	7.783	1.1712E-04	1.2364E-04	0.577
50	50	315.4	567.6	0.231	0.203	8.838	7.787	1.4016E-04	1.4795E-04	0.496
51	51	311.7	561.1	0.035	0.030	8.876	7.821	2.0879E-05	2.2034E-05	1.395
52	52	311.8	561.3	0.017	0.015	8.876	7.821	1.0136E-05	1.0697E-05	1.914
53	53	311.7	561.0	0.039	0.034	8.877	7.822	2.3604E-05	2.4909E-05	0.959
54	54	312.3	562.1	0.045	0.040	8.871	7.816	2.7352E-05	2.8866E-05	0.911
55	55	312.5	562.4	0.040	0.035	8.869	7.814	2.4092E-05	2.5426E-05	0.975
56	56	312.3	562.1	0.031	0.027	8.871	7.816	1.8653E-05	1.9686E-05	0.889
57	57	312.2	561.9	0.033	0.029	8.872	7.817	1.9860E-05	2.0960E-05	0.912
58	58	312.6	562.7	0.031	0.027	8.867	7.813	1.8656E-05	1.9689E-05	1.079
59	59	312.6	562.7	0.017	0.015	8.867	7.813	1.0557E-05	1.1142E-05	1.906
60	60	312.7	562.9	0.004	0.003	8.866	7.812	2.2455E-06	2.3699E-06	8.389
61	61	312.7	562.9	-0.008	-0.007	8.866	7.812	-4.6258E-06	-4.8821E-06	-5.032
62	62	312.7	562.8	-0.038	-0.034	8.867	7.813	-2.3284E-05	-2.4573E-05	-0.504
63	63	312.5	562.6	-0.082	-0.072	8.868	7.814	-4.9655E-05	-5.2404E-05	-0.238
64	64	311.8	561.2	-0.138	-0.122	8.876	7.821	-8.3415E-05	-8.8030E-05	0.110
65	65	313.4	564.1	0.023	0.021	8.859	7.806	1.4174E-05	1.4960E-05	1.137
66	66	313.8	564.8	0.031	0.027	8.854	7.802	1.8904E-05	1.9953E-05	1.048
67	67	314.4	565.9	0.040	0.036	8.848	7.796	2.4454E-05	2.5812E-05	1.054
68	68	315.0	566.9	0.026	0.023	8.842	7.791	1.5742E-05	1.6617E-05	1.001
69	69	315.1	567.1	0.016	0.014	8.841	7.790	9.7461E-06	1.0288E-05	0.462
70	70	315.2	567.3	0.031	0.027	8.840	7.789	1.8810E-05	1.9856E-05	0.867
71	71	316.1	569.1	0.047	0.041	8.829	7.780	2.8437E-05	3.0020E-05	1.051
72	72	315.6	568.1	0.065	0.057	8.835	7.785	3.9268E-05	4.1452E-05	1.174
73	73	315.4	567.7	0.013	0.011	8.838	7.787	7.7031E-06	8.1314E-06	2.676
74	74	315.2	567.3	0.026	0.023	8.840	7.789	1.5076E-05	1.6547E-05	1.681
75	75	314.4	566.0	0.006	0.005	8.848	7.796	3.4054E-06	3.5945E-06	8.326

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3452E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	4.150	3.993	4.111
PT2/PT1	5.399E-02	5.194E-02	5.348E-02
TEMP(DEG R)	2057.8	2078.4	2169.1
TT2/TT1	1.0022	1.0122	1.0564

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 7 FRAME 25 TO 82 CONSTANT SET 111

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1 5.10	0.9968E 06	150.38	2018.30	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	150.377	2022.595	0.147	0.152	700.333	-0.277	17.6147
0.070	150.743	2019.475	0.144	0.152	700.333	-0.277	17.6147
0.140	150.195	2019.346	0.136	0.203	699.377	-0.277	17.6106
0.210	150.195	2019.607	0.144	0.586	700.333	-0.290	17.6147
0.280	150.377	2019.739	0.173	1.743	704.149	-0.290	17.6147
0.350	150.377	2019.869	0.663	3.396	761.025	-0.277	17.6147
0.420	150.560	2017.653	2.456	4.881	1015.361	-0.277	17.6066
0.490	150.195	2018.045	4.762	6.405	1397.643	-0.290	17.6106
0.560	150.195	2017.915	6.288	7.362	1720.345	-0.303	17.6147
0.630	150.195	2018.697	7.226	7.725	1885.197	-0.303	17.6147
0.700	150.377	2018.566	7.760	7.750	1928.582	-0.290	17.6106
0.770	150.560	2018.173	7.874	7.566	1929.247	-0.277	34.9188
0.840	150.195	2018.043	7.866	7.398	1960.529	-0.303	34.9229
0.910	150.377	2018.304	7.824	7.390	1960.375	-0.316	34.9269
0.980	150.195	2018.564	7.777	7.473	1982.112	-0.303	34.9309
1.050	150.195	2018.953	7.745	7.566	1993.272	-0.290	34.9269
1.120	150.195	2018.564	7.737	7.672	1999.170	-0.303	34.9229
1.190	150.195	2018.303	7.742	7.745	2008.329	-0.303	34.9269
1.260	150.195	2018.171	7.745	7.801	2019.429	-0.303	34.9309
1.330	150.195	2019.085	7.734	7.834	2014.861	-0.303	34.9350
1.400	150.377	2019.604	7.732	7.862	2011.596	-0.290	34.9309
1.470	150.195	2019.214	7.734	7.890	2014.209	-0.303	34.9269
1.540	150.195	2018.303	7.734	7.901	2023.340	-0.303	34.9269
1.610	150.012	2018.171	7.727	7.918	2034.405	-0.316	34.9350
1.680	150.012	2017.261	7.727	7.940	2040.252	-0.303	34.9309
1.750	150.377	2017.391	7.727	7.968	2037.654	-0.290	34.9350
1.820	150.195	2016.869	7.740	7.994	2038.304	-0.303	34.9229
1.890	150.195	2016.740	7.734	8.005	2043.498	-0.290	34.9309
1.960	150.012	2016.999	7.727	8.013	2043.498	-0.303	34.9309
2.030	150.012	2017.262	7.724	8.021	2045.444	-0.303	34.9309
2.100	150.012	2018.306	7.721	8.041	2049.335	-0.290	34.9350
2.170	150.195	2017.521	7.727	8.058	2047.390	-0.303	34.9229
2.240	150.195	2016.999	7.737	8.061	2051.927	-0.290	34.9269
2.310	150.012	2017.653	7.737	8.069	2056.459	-0.303	34.9309
2.380	150.195	2018.431	7.721	8.069	2051.927	-0.303	34.9350
2.450	150.012	2019.084	7.727	8.069	2052.574	-0.290	34.9309
2.520	150.195	2018.562	7.734	8.080	2057.753	-0.303	34.9269
2.590	150.012	2017.912	7.742	8.080	2062.927	-0.303	34.9269
2.660	150.012	2018.564	7.727	8.097	2060.341	-0.303	34.9350
2.730	150.012	2018.823	7.721	8.114	2047.390	-0.303	34.9309
2.800	150.012	2019.607	7.724	8.117	2045.444	-0.303	34.9309
2.870	150.195	2018.820	7.727	8.125	2051.279	-0.303	34.9229
2.940	149.463	2019.083	7.727	8.117	2058.400	-0.303	34.9269
3.010	149.463	2019.213	7.721	8.105	2058.400	-0.316	34.9309
3.080	150.012	2019.341	7.719	8.125	2053.870	-0.303	34.9350
3.150	150.012	2020.515	7.727	8.136	2059.694	-0.303	34.9350
3.220	150.012	2019.864	7.727	8.145	2062.927	-0.303	34.9229
3.290	149.463	2019.081	7.721	8.133	2060.341	-0.303	34.9309
3.360	149.463	2019.733	7.724	8.125	2060.341	-0.303	34.9309
3.430	149.463	2020.384	7.716	8.119	2058.400	-0.303	34.9309
3.500	150.012	2021.296	7.711	8.108	2053.870	-0.305	34.9309
3.570	150.012	2020.646	7.708	8.097	2053.870	-0.303	34.9229
3.640	150.012	2020.516	7.700	8.094	2059.694	-0.290	34.9269
3.710	149.463	2020.646	7.700	8.097	2057.753	-0.316	34.9269
3.780	150.012	2021.034	7.713	8.108	2047.390	-0.303	34.9309
3.850	150.012	2021.556	7.721	8.108	2049.983	-0.290	34.9350
3.920	150.012	2020.904	7.727	8.097	2058.400	-0.303	34.9229
3.990	149.463	2020.645	7.708	8.097	2060.341	-0.303	34.9269

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2704E 06	9.9681E 05	0.305	1.23	1121.3	0.11846E 07	0.3048	1.000	RUN NO. 7
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9681E 05	9.9681E 05	1.000	150.38	2018.3	509.39	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.265	0.2782	0.2782	0.3180	0.3358	39	39	0.264	0.0409	0.0409	0.0467	0.0494
2	2	0.287	0.0000	0.0000	0.0000	0.0000	40	40	0.264	0.0322	0.0322	0.0368	0.0388
3	3	0.266	0.2770	0.2770	0.3167	0.3344	41	41	0.263	0.0265	0.0265	0.0303	0.0320
4	4	0.266	0.2794	0.2794	0.3194	0.3372	42	42	0.263	0.0257	0.0257	0.0294	0.0310
5	5	0.266	0.2754	0.2754	0.3148	0.3324	43	43	0.263	0.0230	0.0230	0.0263	0.0278
6	6	0.265	0.2725	0.2725	0.3115	0.3289	44	44	0.263	0.0226	0.0226	0.0259	0.0273
7	7	0.265	0.2593	0.2593	0.2965	0.3130	45	45	0.263	0.0199	0.0199	0.0227	0.0240
8	8	0.266	0.2262	0.2262	0.2586	0.2730	46	46	0.264	0.0230	0.0230	0.0262	0.0277
9	9	0.266	0.1880	0.1880	0.2150	0.2270	47	47	0.263	0.0203	0.0203	0.0232	0.0245
10	10	0.265	0.1497	0.1497	0.1711	0.1807	48	48	0.263	0.0225	0.0225	0.0257	0.0272
11	11	0.266	0.1148	0.1148	0.1312	0.1386	49	49	0.263	0.0228	0.0228	0.0260	0.0274
12	12	0.266	0.0946	0.0946	0.1081	0.1141	50	50	0.263	0.0186	0.0186	0.0213	0.0224
13	13	0.266	0.0730	0.0730	0.0834	0.0881	51	51	0.262	0.0578	0.0578	0.0660	0.0697
14	14	0.266	0.0663	0.0663	0.0758	0.0800	52	52	0.263	0.0592	0.0592	0.0676	0.0714
15	15	0.266	0.0575	0.0575	0.0658	0.0694	53	53	0.262	0.0755	0.0755	0.0863	0.0911
16	16	0.266	0.0548	0.0548	0.0627	0.0662	54	54	0.263	0.0749	0.0749	0.0855	0.0903
17	17	0.266	0.0570	0.0570	0.0652	0.0688	55	55	0.263	0.0738	0.0738	0.0843	0.0890
18	18	0.266	0.0584	0.0584	0.0668	0.0705	56	56	0.262	0.0771	0.0771	0.0881	0.0930
19	19	0.266	0.0594	0.0594	0.0679	0.0717	57	57	0.262	0.0647	0.0647	0.0739	0.0780
20	20	0.266	0.0612	0.0612	0.0700	0.0739	58	58	0.262	0.0530	0.0530	0.0605	0.0639
21	21	0.267	0.0638	0.0638	0.0730	0.0770	59	59	0.262	0.0476	0.0476	0.0544	0.0574
22	22	0.266	0.0648	0.0648	0.0740	0.0782	60	60	0.262	0.0428	0.0428	0.0489	0.0517
23	23	0.266	0.0666	0.0666	0.0761	0.0804	61	61	0.262	0.0369	0.0369	0.0421	0.0445
24	24	0.266	0.0708	0.0708	0.0809	0.0854	62	62	0.262	0.0191	0.0191	0.0218	0.0230
25	25	0.265	0.0721	0.0721	0.0824	0.0870	63	63	0.262	0.0036	0.0036	0.0042	0.0044
26	26	0.264	0.1529	0.1529	0.1748	0.1845	64	64	0.261	-0.0086	-0.0086	-0.0098	-0.0103
27	27	0.265	0.1727	0.1727	0.1975	0.2085	65	65	0.262	0.0078	0.0078	0.0089	0.0094
28	28	0.265	0.1726	0.1726	0.1973	0.2083	66	66	0.262	0.0070	0.0070	0.0080	0.0084
29	29	0.265	0.1724	0.1724	0.1971	0.2081	67	67	0.262	0.0060	0.0060	0.0068	0.0072
30	30	0.265	0.1734	0.1734	0.1982	0.2092	68	68	0.262	0.0051	0.0051	0.0058	0.0061
31	31	0.265	0.1707	0.1707	0.1951	0.2060	69	69	0.262	0.0050	0.0050	0.0058	0.0061
32	32	0.264	0.1530	0.1530	0.1749	0.1847	70	70	0.262	0.0036	0.0036	0.0041	0.0044
33	33	0.265	0.1323	0.1323	0.1512	0.1596	71	71	0.263	0.0060	0.0060	0.0069	0.0072
34	34	0.265	0.1209	0.1209	0.1382	0.1459	72	72	0.263	0.0057	0.0057	0.0065	0.0068
35	35	0.264	0.1058	0.1058	0.1209	0.1277	73	73	0.262	0.0025	0.0025	0.0029	0.0030
36	36	0.264	0.0968	0.0968	0.1107	0.1169	74	74	0.262	0.0030	0.0030	0.0034	0.0036
37	37	0.264	0.0719	0.0719	0.0822	0.0868	75	75	0.261	-0.0052	-0.0052	-0.0060	-0.0063
38	38	0.265	0.0544	0.0544	0.0622	0.0657							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2704E 06	9.9681E 05	0.305	10.23	1121.3	0.11846E 07	0.3048	1.000	RUN NO. 7
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9681E 05	9.9681E 05	1.000	150.38	2018.3	509.39	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	312.5	562.6	3.364	2.964	12.092	10.655	1.0551E-03	1.1140E-03	0.399
2	2	338.7	609.7	0.000	0.000	11.704	10.313	3.0951E-16	3.2744E-16	*******
3	3	313.1	563.7	3.347	2.949	12.083	10.647	1.0506E-03	1.1093E-03	0.408
4	4	313.2	563.7	3.376	2.975	12.083	10.647	1.0596E-03	1.1188E-03	0.407
5	5	313.3	564.0	3.327	2.931	12.080	10.644	1.0444E-03	1.1028E-03	0.405
6	6	313.0	563.4	3.293	2.902	12.085	10.649	1.0335E-03	1.0913E-03	0.407
7	7	313.0	563.3	3.134	2.762	12.086	10.649	9.8357E-04	1.0385E-03	0.404
8	8	313.3	564.0	2.732	2.407	12.080	10.644	8.5781E-04	9.0575E-04	0.388
9	9	313.2	563.7	2.272	2.002	12.083	10.647	7.1316E-04	7.5301E-04	0.355
10	10	313.1	563.5	1.809	1.594	12.084	10.648	5.6763E-04	5.9934E-04	0.318
11	11	313.2	563.7	1.387	1.222	12.083	10.647	4.3537E-04	4.5969E-04	0.268
12	12	313.3	563.9	1.142	1.007	12.081	10.645	3.5863E-04	3.7868E-04	0.217
13	13	313.8	564.8	0.881	0.776	12.074	10.639	2.7673E-04	2.9220E-04	0.145
14	14	313.7	564.6	0.801	0.706	12.075	10.640	2.5150E-04	2.6556E-04	0.097
15	15	313.5	564.3	0.695	0.612	12.077	10.642	2.1815E-04	2.3035E-04	0.086
16	16	313.5	564.4	0.662	0.584	12.077	10.642	2.0798E-04	2.1961E-04	0.073
17	17	313.7	564.6	0.689	0.607	12.075	10.640	2.1630E-04	2.2840E-04	0.104
18	18	314.0	565.1	0.705	0.621	12.071	10.636	2.2163E-04	2.3403E-04	0.117
19	19	313.9	565.1	0.717	0.631	12.072	10.637	2.2518E-04	2.3777E-04	0.136
20	20	313.9	565.1	0.739	0.651	12.071	10.637	2.3215E-04	2.4513E-04	0.152
21	21	314.6	566.2	0.770	0.678	12.062	10.628	2.4203E-04	2.5558E-04	0.169
22	22	314.1	565.4	0.782	0.689	12.069	10.634	2.4562E-04	2.5936E-04	0.161
23	23	314.0	565.1	0.804	0.708	12.071	10.636	2.5257E-04	2.6670E-04	0.167
24	24	313.9	565.0	0.854	0.753	12.072	10.637	2.6845E-04	2.8346E-04	0.180
25	25	313.0	563.4	0.871	0.767	12.085	10.649	2.7332E-04	2.8858E-04	0.180
26	26	311.9	561.3	1.851	1.631	12.102	10.664	5.7986E-04	6.1221E-04	0.492
27	27	312.3	562.2	2.089	1.841	12.095	10.658	6.5512E-04	6.9168E-04	0.469
28	28	312.2	562.0	2.088	1.840	12.096	10.659	6.5472E-04	6.9126E-04	0.469
29	29	312.3	562.1	2.085	1.838	12.096	10.658	6.5387E-04	6.9037E-04	0.461
30	30	312.4	562.3	2.097	1.848	12.095	10.657	6.5749E-04	6.9419E-04	0.463
31	31	312.1	561.8	2.065	1.819	12.098	10.660	6.4722E-04	6.8333E-04	0.465
32	32	311.8	561.2	1.852	1.632	12.103	10.664	5.8031E-04	6.1267E-04	0.459
33	33	312.3	562.1	1.660	1.410	12.096	10.658	5.0162E-04	5.2961E-04	0.459
34	34	312.0	561.7	1.463	1.289	12.099	10.661	4.5843E-04	4.8401E-04	0.440
35	35	311.9	561.4	1.281	1.128	12.101	10.663	4.0128E-04	4.2367E-04	0.445
36	36	311.9	561.4	1.172	1.033	12.102	10.663	3.6726E-04	3.8775E-04	0.448
37	37	311.8	561.2	0.871	0.767	12.103	10.665	2.7276E-04	2.8797E-04	0.405
38	38	312.3	562.1	0.658	0.580	12.096	10.658	2.0642E-04	2.1794E-04	0.359
39	39	311.9	561.4	0.495	0.436	12.102	10.664	1.5509E-04	1.6374E-04	0.264
40	40	311.8	561.2	0.390	0.343	12.103	10.665	1.2207E-04	1.2888E-04	0.247
41	41	309.7	557.4	0.322	0.284	12.135	10.692	1.0066E-04	1.0625E-04	0.273
42	42	310.0	557.9	0.312	0.275	12.130	10.689	9.7403E-05	1.0282E-04	0.261
43	43	310.3	558.5	0.279	0.246	12.126	10.685	8.7325E-05	9.2184E-05	0.330
44	44	310.0	558.0	0.275	0.242	12.130	10.688	8.5866E-05	9.0643E-05	0.284
45	45	310.1	558.1	0.241	0.212	12.129	10.687	7.5292E-05	7.9481E-05	0.280
46	46	310.9	559.5	0.278	0.245	12.117	10.677	8.7040E-05	9.1888E-05	0.325
47	47	310.6	559.0	0.246	0.217	12.121	10.681	7.7043E-05	8.1332E-05	0.317
48	48	310.3	558.6	0.273	0.241	12.125	10.684	8.5425E-05	9.0179E-05	0.323
49	49	310.2	558.4	0.276	0.243	12.126	10.685	8.6269E-05	9.1069E-05	0.296
50	50	309.6	557.3	0.226	0.199	12.135	10.693	7.0534E-05	7.4477E-05	0.188
51	51	309.4	556.9	0.701	0.618	12.139	10.696	2.1898E-04	2.3116E-04	0.602
52	52	309.7	557.4	0.718	0.633	12.135	10.693	2.2448E-04	2.3696E-04	0.554
53	53	308.9	556.0	0.917	0.808	12.146	10.703	2.8629E-04	3.0219E-04	0.566
54	54	309.7	557.4	0.908	0.800	12.135	10.692	2.8383E-04	2.9961E-04	0.576
55	55	309.9	557.8	0.895	0.789	12.132	10.690	2.7987E-04	2.9544E-04	0.590
56	56	309.5	557.1	0.936	0.824	12.138	10.695	2.9228E-04	3.0852E-04	0.592
57	57	309.2	556.5	0.786	0.692	12.142	10.699	2.4538E-04	2.5902E-04	0.609
58	58	309.6	557.3	0.643	0.567	12.136	10.693	2.0086E-04	2.1203E-04	0.633
59	59	309.4	557.0	0.578	0.509	12.138	10.695	1.8055E-04	1.9059E-04	0.680
60	60	309.5	557.1	0.520	0.458	12.137	10.695	1.6240E-04	1.7143E-04	0.700
61	61	309.3	556.8	0.448	0.394	12.140	10.697	1.3977E-04	1.4754E-04	0.750
62	62	309.1	556.4	0.232	0.205	12.143	10.700	7.2468E-05	7.6495E-05	0.965
63	63	309.0	556.3	0.044	0.039	12.144	10.700	1.3822E-05	1.4590E-05	3.901
64	64	308.0	554.3	-0.104	-0.092	12.160	10.715	-3.2506E-05	-3.4310E-05	-0.416
65	65	308.8	555.8	0.094	0.083	12.148	10.704	2.9484E-05	3.1121E-05	0.694
66	66	308.6	555.5	0.085	0.075	12.150	10.706	2.6536E-05	2.8009E-05	0.709
67	67	309.0	556.2	0.073	0.064	12.145	10.701	2.2641E-05	2.3898E-05	0.709
68	68	309.3	556.7	0.062	0.055	12.141	10.698	1.9320E-05	2.0394E-05	0.768
69	69	309.0	556.3	0.061	0.054	12.144	10.701	1.9107E-05	2.0168E-05	0.776
70	70	309.0	556.2	0.044	0.039	12.145	10.701	1.3758E-05	1.4522E-05	0.627
71	71	310.3	558.5	0.073	0.064	12.125	10.684	2.2746E-05	2.4012E-05	1.050
72	72	309.6	557.3	0.069	0.060	12.135	10.693	2.1434E-05	2.2626E-05	1.352
73	73	309.4	556.9	0.031	0.027	12.139	10.696	9.5357E-06	1.0066E-05	2.859
74	74	309.2	556.6	0.036	0.032	12.141	10.698	1.1294E-05	1.1922E-05	1.450
75	75	308.3	555.0	-0.064	-0.056	12.154	10.710	-1.9828E-05	-2.0928E-05	-0.515

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6659E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.222	7.708	8.097
PT2/PT1	5.468E-02	5.126E-02	5.384E-02
TEMP(DEG R)	2008.3	2060.3	2136.1
TT2/TT1	0.9951	1.0208	1.0583

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 8 FRAME 25 TO 52 CONSTANT SET 112

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8 1	5.10	0.1938E 07	304.40	2066.88	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.398	2067.658	0.280	0.335	793.530	-0.304	17.6142
0.070	304.398	2068.302	0.280	0.346	793.530	-0.304	17.6182
0.140	304.398	2067.658	0.272	0.430	795.315	-0.304	17.6061
0.210	304.398	2067.658	0.280	1.230	801.545	-0.291	17.6061
0.280	304.215	2067.529	0.349	4.037	881.229	-0.304	17.6102
0.350	304.215	2067.658	1.509	7.522	1448.154	-0.304	17.6102
0.420	304.215	2068.173	5.646	10.631	1875.130	-0.317	17.6142
0.490	304.581	2067.658	10.265	13.503	1978.167	-0.291	17.6061
0.560	304.398	2067.272	13.215	15.122	2025.946	-0.291	17.6061
0.630	304.398	2067.012	14.958	15.628	2021.385	-0.304	17.6102
0.700	304.398	2067.011	15.676	15.491	2060.341	-0.304	25.8143
0.770	304.215	2067.656	15.819	15.187	2098.989	-0.330	34.9178
0.840	304.398	2067.397	15.663	14.999	2098.989	-0.317	34.9178
0.910	304.398	2066.880	15.531	15.072	2123.950	-0.304	34.9178
0.980	304.581	2066.882	15.439	15.268	2128.417	-0.317	34.9178
1.050	304.215	2066.751	15.407	15.491	2136.703	-0.330	34.9259
1.120	304.398	2067.139	15.423	15.668	2136.066	-0.317	34.9219
1.190	304.398	2067.268	15.436	15.807	2150.060	-0.304	34.9178
1.260	304.398	2066.493	15.454	15.903	2145.612	-0.304	34.9178
1.330	304.398	2066.236	15.462	15.964	2156.409	-0.317	34.9219
1.400	304.398	2066.880	15.439	16.020	2137.340	-0.330	34.9259
1.470	304.398	2067.009	15.439	16.079	2143.704	-0.304	34.9259
1.540	304.581	2066.750	15.439	16.118	2155.139	-0.304	34.9219
1.610	304.581	2066.749	15.433	16.135	2130.968	-0.304	34.9259
1.680	304.398	2066.363	15.433	16.182	2121.396	-0.317	34.9219
1.750	304.398	2066.621	15.431	16.202	2133.518	-0.317	34.9259
1.820	304.398	2066.879	15.439	16.227	2141.159	-0.317	34.9259
1.890	304.581	2066.750	15.439	16.224	2150.060	-0.304	34.9259

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
>.10	6.3592E 06	1.9383E 06	0.305	20.71	1148.3	0.12159E 07	0.3048	1.000	RUN NO. 8
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9383E 06	1.9383E 06	1.000	304.40	2066.9	522.86	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.264	0.3033	0.3033	0.3466	0.3659	39	39	0.262	0.2334	0.2334	0.2667	0.2815
2	2	0.280	0.0000	0.0000	0.0000	0.0000	40	40	0.261	0.2023	0.2023	0.2311	0.2440
3	3	0.264	0.3062	0.3062	0.3500	0.3695	41	41	0.258	0.1765	0.1765	0.2015	0.2126
4	4	0.264	0.3156	0.3156	0.3607	0.3809	42	42	0.261	0.1492	0.1492	0.1704	0.1799
5	5	0.264	0.3168	0.3168	0.3621	0.3823	43	43	0.259	0.1055	0.1055	0.1205	0.1271
6	6	0.264	0.3228	0.3228	0.3689	0.3895	44	44	0.258	0.0673	0.0673	0.0768	0.0810
7	7	0.264	0.3379	0.3379	0.3862	0.4077	45	45	0.258	0.0407	0.0407	0.0465	0.0491
8	8	0.264	0.3433	0.3433	0.3924	0.4143	46	46	0.259	0.0405	0.0405	0.0462	0.0488
9	9	0.264	0.3558	0.3558	0.4067	0.4293	47	47	0.259	0.0211	0.0211	0.0241	0.0255
10	10	0.264	0.3645	0.3645	0.4166	0.4398	48	48	0.259	0.0189	0.0189	0.0216	0.0227
11	11	0.264	0.3606	0.3606	0.4121	0.4351	49	49	0.258	0.0039	0.0039	0.0045	0.0047
12	12	0.264	0.3701	0.3701	0.4229	0.4465	50	50	0.258	-0.0147	-0.0147	-0.0168	-0.0177
13	13	0.265	0.3495	0.3495	0.3994	0.4217	51	51	0.259	0.0409	0.0409	0.0467	0.0492
14	14	0.264	0.3209	0.3209	0.3668	0.3872	52	52	0.259	0.0384	0.0384	0.0438	0.0463
15	15	0.264	0.2307	0.2307	0.2637	0.2784	53	53	0.258	0.1063	0.1063	0.1213	0.1280
16	16	0.264	0.1665	0.1665	0.1903	0.2009	54	54	0.259	0.1109	0.1109	0.1266	0.1336
17	17	0.264	0.1294	0.1294	0.1479	0.1561	55	55	0.259	0.1145	0.1145	0.1308	0.1380
18	18	0.264	0.1034	0.1034	0.1182	0.1248	56	56	0.258	0.1197	0.1197	0.1366	0.1442
19	19	0.264	0.0759	0.0759	0.0867	0.0915	57	57	0.258	0.1176	0.1176	0.1343	0.1417
20	20	0.264	0.0683	0.0683	0.0781	0.0824	58	58	0.259	0.1134	0.1134	0.1294	0.1366
21	21	0.265	0.0635	0.0635	0.0726	0.0767	59	59	0.258	0.1251	0.1251	0.1429	0.1507
22	22	0.264	0.0635	0.0635	0.0726	0.0766	60	60	0.258	0.1316	0.1316	0.1503	0.1586
23	23	0.264	0.0656	0.0656	0.0750	0.0792	61	61	0.258	0.1179	0.1179	0.1346	0.1420
24	24	0.264	0.0673	0.0673	0.0769	0.0812	62	62	0.258	0.0959	0.0959	0.1095	0.1155
25	25	0.262	0.0646	0.0646	0.0738	0.0779	63	63	0.258	0.0951	0.0951	0.1086	0.1146
26	26	0.262	0.1582	0.1582	0.1807	0.1908	64	64	0.257	0.0921	0.0921	0.1051	0.1109
27	27	0.263	0.1823	0.1823	0.2083	0.2199	65	65	0.257	0.1276	0.1276	0.1456	0.1537
28	28	0.263	0.1891	0.1891	0.2161	0.2281	66	66	0.257	0.1088	0.1088	0.1241	0.1310
29	29	0.263	0.1954	0.1954	0.2233	0.2357	67	67	0.257	0.0873	0.0873	0.0997	0.1052
30	30	0.263	0.2012	0.2012	0.2299	0.2427	68	68	0.257	0.0574	0.0574	0.0655	0.0691
31	31	0.262	0.2001	0.2001	0.2286	0.2413	69	69	0.257	0.0334	0.0334	0.0382	0.0403
32	32	0.262	0.2018	0.2018	0.2306	0.2434	70	70	0.257	0.0196	0.0196	0.0223	0.0236
33	33	0.263	0.2083	0.2083	0.2380	0.2512	71	71	0.258	0.0181	0.0181	0.0207	0.0218
34	34	0.262	0.2340	0.2340	0.2674	0.2822	72	72	0.257	0.0073	0.0073	0.0083	0.0088
35	35	0.262	0.2481	0.2481	0.2835	0.2992	73	73	0.257	0.0017	0.0017	0.0019	0.0020
36	36	0.262	0.2446	0.2446	0.2794	0.2949	74	74	0.257	-0.0033	-0.0033	-0.0037	-0.0039
37	37	0.262	0.2214	0.2214	0.2529	0.2670	75	75	0.256	-0.0179	-0.0179	-0.0204	-0.0215
38	38	0.262	0.2335	0.2335	0.2668	0.2816							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.3592E 06	1.9383E 06	0.305	20.71	1148.3	0.12159E 07	0.3048	1.000	RUN NO.	8
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9383E 06	1.9383E 06	1.000	304.40	2066.9	522.86	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	1	319.1	574.5	5.361	4.724	17.679	15.577	8.2219E-04	8.6799E-04	0.335
2	2	338.7	609.6	0.000	0.000	17.266	15.214	3.0815E-17	3.2578E-17	*******
3	3	320.0	575.9	5.408	4.766	17.662	15.562	8.3030E-04	8.7660E-04	0.349
4	4	320.0	575.9	5.574	4.912	17.662	15.562	8.5578E-04	9.0350E-04	0.350
5	5	320.1	576.2	5.594	4.929	17.658	15.559	8.5895E-04	9.0686E-04	0.342
6	6	319.6	575.2	5.704	5.026	17.670	15.569	8.7524E-04	9.2402E-04	0.347
7	7	319.5	575.1	5.972	5.262	17.671	15.571	9.1621E-04	9.6727E-04	0.353
8	8	320.0	576.1	6.063	5.342	17.660	15.561	9.3085E-04	9.8276E-04	0.360
9	9	319.7	575.5	6.286	5.539	17.666	15.566	9.6474E-04	1.0185E-03	0.368
10	10	319.6	575.4	6.440	5.674	17.668	15.568	9.8823E-04	1.0433E-03	0.372
11	11	319.7	575.4	6.371	5.614	17.668	15.568	9.7773E-04	1.0322E-03	0.368
12	12	319.8	575.6	6.537	5.760	17.665	15.565	1.0034E-03	1.0593E-03	0.359
13	13	320.3	576.5	6.170	5.436	17.655	15.556	9.4753E-04	1.0004E-03	0.343
14	14	320.1	576.2	5.667	4.993	17.659	15.560	8.7012E-04	9.1865E-04	0.314
15	15	319.7	575.4	4.076	3.592	17.668	15.568	6.2556E-04	6.6043E-04	0.281
16	16	319.6	575.2	2.942	2.592	17.670	15.569	4.5146E-04	4.7662E-04	0.245
17	17	319.6	575.3	2.286	2.014	17.668	15.568	3.5080E-04	3.7035E-04	0.225
18	18	320.0	576.0	1.827	1.609	17.661	15.562	2.8042E-04	2.9606E-04	0.223
19	19	319.6	575.2	1.340	1.181	17.670	15.570	2.0566E-04	2.1712E-04	0.154
20	20	319.5	575.0	1.207	1.064	17.672	15.571	1.8522E-04	1.9554E-04	0.145
21	21	320.3	576.5	1.122	0.988	17.655	15.556	1.7228E-04	1.8190E-04	0.080
22	22	319.5	575.1	1.123	0.989	17.671	15.571	1.7224E-04	1.8184E-04	0.072
23	23	319.2	574.5	1.161	1.023	17.678	15.577	1.7798E-04	1.8789E-04	0.088
24	24	319.1	574.4	1.190	1.049	17.679	15.578	1.8254E-04	1.9271E-04	0.080
25	25	317.6	571.7	1.143	1.007	17.711	15.606	1.7500E-04	1.8472E-04	0.034
26	26	317.6	571.7	2.862	2.469	17.712	15.606	4.2884E-04	4.5268E-04	0.386
27	27	318.3	572.9	3.227	2.843	17.698	15.594	4.9425E-04	5.2175E-04	0.369
28	28	318.2	572.7	3.347	2.949	17.699	15.595	5.1272E-04	5.4124E-04	0.376
29	29	318.1	572.6	3.460	3.048	17.701	15.597	5.2984E-04	5.5932E-04	0.372
30	30	318.2	572.7	3.561	3.138	17.699	15.595	5.4551E-04	5.7585E-04	0.367
31	31	317.7	571.8	3.544	3.122	17.710	15.605	5.4240E-04	5.7256E-04	0.363
32	32	317.2	571.0	3.576	3.151	17.719	15.613	5.4706E-04	5.7745E-04	0.362
33	33	317.9	572.3	3.688	3.249	17.705	15.600	5.6464E-04	5.9604E-04	0.372
34	34	317.6	571.6	4.145	3.652	17.712	15.607	6.3440E-04	6.6966E-04	0.386
35	35	317.3	571.2	4.396	3.874	17.717	15.611	6.7261E-04	7.0998E-04	0.406
36	36	317.2	570.9	4.334	3.819	17.721	15.615	6.6299E-04	6.9982E-04	0.383
37	37	317.0	570.5	3.924	3.458	17.725	15.618	6.0015E-04	6.3348E-04	0.354
38	38	317.5	571.6	4.136	3.644	17.713	15.607	6.3299E-04	6.6818E-04	0.360
39	39	316.7	570.1	4.139	3.647	17.730	15.622	6.3275E-04	6.6789E-04	0.327
40	40	316.5	569.7	3.588	3.162	17.734	15.626	5.4846E-04	5.7890E-04	0.289
41	41	312.3	562.1	3.146	2.772	17.824	15.705	4.7831E-04	5.0471E-04	0.327
42	42	315.4	567.7	2.650	2.335	17.759	15.648	4.0441E-04	4.2682E-04	0.470
43	43	313.3	563.9	1.878	1.655	17.803	15.687	2.8591E-04	3.0171E-04	0.277
44	44	312.7	562.8	1.199	1.056	17.816	15.698	1.8230E-04	1.9237E-04	0.213
45	45	312.9	563.2	0.725	0.639	17.811	15.694	1.1036E-04	1.1643E-04	0.126
46	46	314.0	565.2	0.720	0.635	17.787	15.673	1.0971E-04	1.1578E-04	0.157
47	47	313.5	564.3	0.376	0.331	17.799	15.683	5.7252E-05	6.0416E-05	-0.418
48	48	313.1	563.6	0.336	0.296	17.807	15.690	5.1160E-05	5.3986E-05	-0.705
49	49	312.9	563.3	0.069	0.061	17.810	15.693	1.0574E-05	1.1158E-05	-4.567
50	50	312.0	561.6	-0.262	-0.231	17.831	15.711	-3.9797E-05	-4.1992E-05	1.810
51	51	313.6	564.5	0.727	0.641	17.796	15.681	1.1077E-04	1.1689E-04	0.183
52	52	314.0	565.2	0.683	0.602	17.788	15.674	1.0403E-04	1.0979E-04	0.045
53	53	312.0	561.6	1.895	1.670	17.830	15.710	2.8796E-04	3.0384E-04	0.427
54	54	313.0	563.4	1.975	1.740	17.809	15.692	3.0052E-04	3.1713E-04	0.423
55	55	313.3	564.0	2.039	1.796	17.802	15.686	3.1036E-04	3.2752E-04	0.442
56	56	312.8	563.0	2.132	1.878	17.814	15.696	3.2429E-04	3.4220E-04	0.441
57	57	312.4	562.3	2.096	1.847	17.821	15.703	3.1867E-04	3.3626E-04	0.441
58	58	313.2	563.8	2.018	1.779	17.804	15.688	3.0722E-04	3.2420E-04	0.445
59	59	312.8	563.0	2.229	1.964	17.813	15.696	3.3907E-04	3.5780E-04	0.462
60	60	312.9	563.2	2.345	2.066	17.812	15.695	3.5670E-04	3.7641E-04	0.475
61	61	312.5	562.5	2.101	1.851	17.819	15.701	3.1947E-04	3.3710E-04	0.443
62	62	312.2	562.0	1.709	1.506	17.825	15.707	2.5985E-04	2.7419E-04	0.462
63	63	312.7	562.8	1.695	1.493	17.816	15.698	2.5774E-04	2.7197E-04	0.526
64	64	310.9	559.7	1.644	1.449	17.853	15.731	2.4955E-04	2.6330E-04	0.412
65	65	311.3	560.3	2.277	2.006	17.845	15.724	3.4570E-04	3.6475E-04	0.389
66	66	310.9	559.7	1.942	1.711	17.852	15.730	2.9469E-04	3.1092E-04	0.379
67	67	311.4	560.5	1.558	1.373	17.843	15.722	2.3660E-04	2.4964E-04	0.374
68	68	311.7	561.0	1.024	0.902	17.837	15.717	1.5553E-04	1.6411E-04	0.373
69	69	311.2	560.1	0.597	0.526	17.847	15.726	9.0607E-05	9.5601E-05	0.362
70	70	311.2	560.1	0.349	0.308	17.847	15.726	5.3000E-05	5.5921E-05	0.513
71	71	312.9	563.2	0.323	0.284	17.811	15.694	4.9070E-05	5.1781E-05	0.532
72	72	311.7	561.0	0.130	0.115	17.837	15.717	1.9748E-05	2.0837E-05	-0.172
73	73	311.3	560.3	0.030	0.026	17.846	15.724	4.4856E-06	4.7328E-06	-1.818
74	74	310.9	559.7	-0.059	-0.052	17.853	15.731	-8.8828E-06	-9.3722E-06	2.181
75	75	309.6	557.2	-0.320	-0.282	17.882	15.756	-4.8423E-05	-5.1085E-05	0.110

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3004E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.686	15.439	16.224
PT2/PT1	5.482E-02	5.072E-02	5.330E-02
TEMP(DEG R)	2082.9	2150.1	2212.0
TT2/TT1	1.0078	1.0402	1.0702

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 9 FRAME 26 TO 52 CONSTANT SET 411

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
C.C	C.C	C.C	C C B 1	5.1C	0.5048E C6		75.42	2006.68	1.CCCC

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.CCC	75.602	2CC6.C24	0.0E9	C.151	675.246	-0.266	17.6056
C.C7C	75.420	2C05.892	0.084	0.151	675.246	-C.279	17.6137
C.14C	75.237	2C06.026	0.084	0.2C7	675.246	-C.279	17.6097
0.21C	75.237	2C06.154	0.0E9	0.512	677.193	-0.279	17.6097
0.28C	75.237	2C06.678	0.144	1.225	8CC.657	-0.279	17.6218
C.35C	75.420	2C06.284	C.582	2.028	1222.810	-C.279	17.6016
C.42C	75.42C	2005.894	1.6C0	2.724	1596.628	-C.292	17.6097
C.49C	75.420	2C06.288	2.615	3.337	1742.437	-0.292	17.6097
0.56C	75.420	2C06.285	3.1E7	3.686	1751.140	-0.292	17.6137
C.63C	75.237	2C06.808	3.553	3.8C9	1814.306	-C.292	17.6178
C.7CC	75.42C	2C06.156	3.7E7	3.756	1842.1C5	-C.292	18.5577
0.77C	75.42C	2C06.287	3.849	3.583	1874.459	-0.279	3C.6606
0.84C	75.420	2C06.546	3.859	3.476	1915.274	-0.305	34.9289
C.91C	75.42C	2C06.679	3.851	3.457	1915.940	-C.279	34.9329
0.98C	75.6C2	2C07.071	3.822	3.474	1924.594	-C.279	34.9370
1.05C	75.42C	2CC7.07C	3.8C1	3.518	1933.856	-0.279	34.9289
1.12C	75.602	2C06.548	3.759	3.574	1947.154	-0.279	34.9329
1.19C	75.6C2	2C06.81C	3.8C6	3.63C	1951.785	-C.292	34.9289
1.26C	75.6C2	2C06.81C	3.8C4	3.669	1965.654	-C.305	34.9329
1.33C	75.6C2	2CC7.331	3.804	3.697	1978.825	-0.292	34.9370
1.4CC	75.420	2CC7.2CC	3.8C6	3.714	1975.536	-0.292	34.9289
1.47C	75.42C	2C06.547	3.8C6	3.731	1978.167	-C.292	34.9249
1.54C	75.6C2	2006.811	3.804	3.742	1987.367	-C.292	34.9289
1.61C	75.6C2	2CC7.202	3.8C4	3.742	1991.96C	-0.292	34.9329
1.68C	75.602	2CC7.594	3.8C4	3.742	1991.960	-C.292	34.9370
1.75C	75.785	2CC7.331	3.8C1	3.767	2CC0.479	-C.292	34.9289
1.82C	75.6C2	2C06.678	3.804	3.77C	2008.329	-0.279	34.9289

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6563E 06	5.0483E 05	0.305	5.13	1114.8	0.11771E 07	0.3048	1.000	RUN NO. 9
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.0483E 05	5.0483E 05	1.000	75.42	2006.7	506.18	1.0000	1.000

CHAN	T/C	Hb/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	Hb/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	103	0.264	0.0677	0.0677	0.0773	0.0816	39	314	0.259	0.0021	0.0021	0.0024	0.0025
2	105	0.289	0.0000	0.0000	0.0000	0.0000	40	315	0.259	-0.0000	-0.0000	-0.0000	-0.0000
3	107	0.265	0.0651	0.0651	0.0744	0.0785	41	316	0.258	0.0006	0.0006	0.0007	0.0008
4	108	0.264	0.0576	0.0576	0.0658	0.0695	42	317	0.258	-0.0003	-0.0003	-0.0004	-0.0004
5	110	0.263	0.0428	0.0428	0.0489	0.0516	43	318	0.257	-0.0003	-0.0003	-0.0004	-0.0004
6	111	0.263	0.0347	0.0347	0.0397	0.0419	44	319	0.257	-0.0003	-0.0003	-0.0003	-0.0003
7	112	0.262	0.0221	0.0221	0.0252	0.0266	45	320	0.257	0.0007	0.0007	0.0008	0.0008
8	113	0.261	0.0124	0.0124	0.0142	0.0150	46	406	0.261	0.0403	0.0403	0.0529	0.0550
9	114	0.261	0.0027	0.0027	0.0031	0.0033	47	407	0.261	0.0404	0.0404	0.0530	0.0559
10	115	0.260	0.0003	0.0003	0.0003	0.0003	48	408	0.260	0.0417	0.0417	0.0476	0.0502
11	116	0.259	0.0002	0.0002	0.0002	0.0002	49	409	0.260	0.0364	0.0364	0.0415	0.0438
12	117	0.259	0.0001	0.0001	0.0002	0.0002	50	410	0.260	0.0301	0.0301	0.0343	0.0362
13	118	0.258	0.0001	0.0001	0.0001	0.0001	51	411	0.260	0.0249	0.0249	0.0284	0.0300
14	119	0.258	0.0001	0.0001	0.0001	0.0001	52	412	0.260	0.0135	0.0135	0.0154	0.0162
15	120	0.258	-0.0000	-0.0000	-0.0001	-0.0001	53	413	0.259	0.0076	0.0076	0.0087	0.0091
16	203	0.262	0.0580	0.0580	0.0663	0.0699	54	414	0.259	0.0012	0.0012	0.0014	0.0015
17	205	0.262	0.0582	0.0582	0.0665	0.0702	55	415	0.259	-0.0005	-0.0005	-0.0005	-0.0006
18	207	0.262	0.0557	0.0557	0.0636	0.0672	56	416	0.259	-0.0004	-0.0004	-0.0004	-0.0005
19	208	0.262	0.0507	0.0507	0.0579	0.0612	57	417	0.258	-0.0009	-0.0009	-0.0010	-0.0011
20	210	0.261	0.0378	0.0378	0.0432	0.0456	58	418	0.258	-0.0019	-0.0019	-0.0022	-0.0023
21	211	0.261	0.0319	0.0319	0.0364	0.0385	59	419	0.258	-0.0028	-0.0028	-0.0031	-0.0033
22	212	0.260	0.0221	0.0221	0.0252	0.0266	60	420	0.258	-0.0047	-0.0047	-0.0053	-0.0056
23	213	0.260	0.0128	0.0128	0.0147	0.0155	61	506	0.261	0.0434	0.0434	0.0495	0.0523
24	214	0.259	0.0028	0.0028	0.0032	0.0034	62	507	0.260	0.0399	0.0399	0.0456	0.0481
25	215	0.259	0.0003	0.0003	0.0004	0.0004	63	508	0.260	0.0319	0.0319	0.0365	0.0385
26	216	0.259	0.0001	0.0001	0.0001	0.0001	64	509	0.259	0.0195	0.0195	0.0223	0.0235
27	217	0.258	-0.0000	-0.0000	-0.0000	-0.0000	65	510	0.260	0.0321	0.0321	0.0366	0.0386
28	218	0.258	-0.0003	-0.0003	-0.0003	-0.0003	66	511	0.260	0.0291	0.0291	0.0332	0.0350
29	219	0.258	-0.0002	-0.0002	-0.0002	-0.0002	67	512	0.260	0.0194	0.0194	0.0222	0.0234
30	220	0.258	-0.0002	-0.0002	-0.0002	-0.0002	68	513	0.260	0.0109	0.0109	0.0124	0.0131
31	306	0.261	0.0470	0.0470	0.0536	0.0566	69	514	0.259	0.0023	0.0023	0.0026	0.0027
32	307	0.261	0.0465	0.0465	0.0531	0.0561	70	515	0.259	-0.0005	-0.0005	-0.0005	-0.0006
33	308	0.261	0.0421	0.0421	0.0481	0.0508	71	516	0.259	-0.0011	-0.0011	-0.0012	-0.0013
34	309	0.261	0.0363	0.0363	0.0415	0.0438	72	517	0.259	-0.0033	-0.0033	-0.0037	-0.0039
35	310	0.260	0.0322	0.0322	0.0368	0.0388	73	518	0.259	-0.0037	-0.0037	-0.0042	-0.0045
36	311	0.260	0.0259	0.0259	0.0295	0.0312	74	519	0.259	-0.0031	-0.0031	-0.0036	-0.0038
37	312	0.260	0.0165	0.0165	0.0188	0.0198	75	520	0.258	-0.0062	-0.0062	-0.0070	-0.0074
38	313	0.260	0.0095	0.0095	0.0108	0.0114							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6563E C6	5.0483E 05	C.3C5	5.13	1114.8	0.11771E 07	0.3048	1.C00	RUN NO.	9
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.0483E C5	5.0483E 05	1.000	75.42	2006.7	5C6.18	1.0000	1.C00		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	1C3	309.5	557.1	C.577	C.5C8	8.522	7.509	3.6085E-04	3.8C97E-04	0.210
2	1C5	338.7	609.7	0.000	0.000	E.216	7.239	1.3278E-15	1.4050E-15	*******
3	107	310.1	558.2	C.554	C.488	E.516	7.504	3.4698E-04	3.6634E-04	0.201
4	1C8	309.3	556.7	C.491	C.432	E.525	7.511	3.0698E-04	3.2408E-04	0.095
5	1IC	308.4	555.1	C.365	C.322	8.534	7.519	2.2809E-04	2.4079E-04	0.091
6	111	307.9	554.2	0.297	0.261	8.539	7.524	1.8525E-04	1.9556E-04	0.204
7	112	307.1	552.7	0.189	0.166	E.548	7.532	1.1775E-04	1.2430E-04	0.483
8	113	306.5	551.6	C.106	C.C94	E.554	7.538	6.6260E-05	6.9938E-05	0.689
9	114	305.3	549.6	0.023	C.C20	8.566	7.548	1.4394E-05	1.5192E-05	0.787
10	115	304.4	548.0	0.002	0.002	8.576	7.556	1.5326E-06	1.6174E-06	0.001
11	116	303.8	546.8	0.002	0.002	E.582	7.562	1.0977E-06	1.1585E-06	0.094
12	117	303.2	545.8	0.001	C.CC1	E.588	7.568	7.4808E-07	7.8942E-07	0.115
13	118	302.7	544.9	0.001	C.CC1	E.593	7.572	3.9548E-07	4.1732E-07	-0.116
14	119	302.5	544.5	0.001	0.000	8.596	7.574	3.3210E-07	3.5043E-07	1.208
15	12C	302.1	543.8	-0.000	-0.CC0	E.6CC	7.578	-2.3752E-07	-2.5062E-07	0.202
16	2C3	306.9	552.4	0.496	C.437	8.549	7.533	3.0922E-04	3.2640E-04	0.136
17	2C5	307.5	553.4	0.498	C.438	8.544	7.528	3.1047E-04	3.2773E-04	0.149
18	207	307.2	553.C	0.476	0.419	8.546	7.530	2.9692E-04	3.1342E-04	0.134
19	2C8	306.9	552.4	0.434	0.382	E.55C	7.534	2.7041E-04	2.8543E-04	0.054
20	21C	306.1	551.0	0.323	C.285	8.558	7.541	2.0151E-04	2.1269E-04	-0.035
21	211	305.7	550.2	0.273	C.241	8.562	7.545	1.7006E-04	1.7949E-04	0.C99
22	212	305.2	549.3	0.189	0.167	8.568	7.549	1.1781E-04	1.2434E-04	0.369
23	213	304.8	548.6	0.110	0.097	E.572	7.553	6.8491E-05	7.2284E-05	0.600
24	214	303.9	547.1	0.024	C.021	8.581	7.561	1.4867E-05	1.5690E-05	0.8C2
25	215	303.4	546.1	0.003	C.002	8.586	7.566	1.6808E-06	1.7737E-06	0.955
26	216	303.C	545.3	0.CC1	0.000	E.591	7.570	3.4578E-07	3.6488E-07	0.387
27	217	302.6	544.6	-0.CC0	-0.CC0	E.595	7.574	-1.9691E-07	-2.0778E-07	0.389
28	218	302.3	544.2	-C.CC2	-C.CC2	8.598	7.576	-1.4959E-06	-1.5784E-06	1.156
29	219	302.2	543.9	-0.001	-C.001	8.600	7.578	-8.9789E-07	-9.4743E-07	2.630
30	220	301.8	543.3	-0.CC2	-0.001	8.603	7.580	-1.0466E-06	-1.1043E-06	0.864
31	306	306.4	551.5	0.402	0.354	E.555	7.538	2.5C34E-04	2.6424E-04	0.045
32	307	306.2	551.2	0.398	C.351	8.557	7.540	2.4794E-04	2.6169E-04	0.024
33	3C8	305.8	550.4	C.361	0.318	8.562	7.544	2.2446E-04	2.3691E-04	-0.069
34	309	305.5	549.9	0.311	0.274	8.564	7.546	1.9347E-04	2.0420E-04	-0.149
35	31C	305.3	549.5	0.276	0.243	E.567	7.549	1.7171E-04	1.8123E-04	-0.101
36	311	305.1	549.2	C.222	C.195	8.569	7.550	1.3782E-04	1.4546E-04	0.112
37	312	304.6	548.3	0.141	0.124	8.574	7.555	8.7773E-05	9.2633E-05	0.399
38	313	304.3	547.8	0.081	0.071	8.577	7.557	5.0389E-05	5.3177E-05	0.605
39	314	303.9	547.0	0.018	0.016	E.582	7.562	1.1072E-05	1.1685E-05	0.841
40	315	303.5	546.2	-C.CC0	-C.CC0	8.586	7.565	-1.9728E-07	-2.0818E-07	-1.170
41	316	302.C	543.5	0.006	0.005	8.602	7.579	3.4403E-06	3.6300E-06	2.696
42	317	301.8	543.2	-C.CC3	-0.002	8.603	7.581	-1.7439E-06	-1.8401E-06	-2.798
43	318	301.6	542.9	-C.CC3	-0.CC2	E.605	7.582	-1.6941E-06	-1.7875E-06	-1.363
44	319	301.5	542.8	-C.CC2	-C.CC2	8.606	7.583	-1.5444E-06	-1.6295E-06	-1.373
45	32C	301.3	542.4	0.006	0.005	8.608	7.585	3.6880E-06	3.8912E-06	2.939
46	4C6	305.4	549.8	0.366	0.349	E.565	7.547	2.4670E-04	2.6038E-04	0.016
47	4C7	305.3	549.6	0.397	C.350	8.566	7.548	2.4725E-04	2.6095E-04	0.008
48	4C8	305.1	549.2	0.357	C.315	8.568	7.550	2.2206E-04	2.3437E-04	-0.082
49	4C9	304.9	548.9	0.312	0.275	8.570	7.552	1.9380E-04	2.0454E-04	-0.133
5C	410	304.8	548.7	0.258	0.227	8.572	7.553	1.6018E-04	1.6905E-04	-0.079
51	411	304.6	548.2	0.213	0.188	8.574	7.555	1.3253E-04	1.3987E-04	0.080
52	412	304.2	547.6	0.115	C.1C2	8.578	7.558	7.17C8E-05	7.5676E-05	0.476
53	413	3C3.6	546.5	0.065	0.057	8.585	7.564	4.0431E-05	4.2666E-05	0.671
54	414	303.6	546.5	0.011	0.009	E.585	7.564	6.5212E-06	6.8817E-06	1.588
55	415	303.4	546.1	-0.004	-C.CC4	8.587	7.566	-2.4713E-06	-2.6C79E-06	-1.632
56	416	303.C	545.4	-C.003	-C.CC3	8.591	7.570	-2.0258E-06	-2.1378E-06	-2.312
57	417	302.8	545.1	-0.008	-0.007	8.593	7.571	-4.7427E-06	-5.0046E-06	-0.284
58	418	302.6	544.7	-0.017	-0.015	E.595	7.573	-1.0274E-C5	-1.0841E-05	0.290
59	419	302.5	544.6	-0.024	-C.C21	E.596	7.574	-1.4666E-05	-1.5476E-05	0.232
60	42C	302.5	544.5	-0.040	-C.C35	8.596	7.574	-2.4937E-05	-2.6314E-05	C.356
61	506	305.5	550.0	0.371	0.327	8.564	7.546	2.3119E-04	2.4401E-04	-0.010
62	507	305.3	549.5	0.342	0.3C1	E.567	7.548	2.1279E-04	2.2458E-04	-0.045
63	5C8	304.9	548.7	C.274	C.241	E.571	7.552	1.7C20E-04	1.7963E-04	-0.228
64	5C9	304.C	547.3	0.167	C.147	E.580	7.560	1.0391E-04	1.0966E-04	-0.757
65	510	304.8	548.6	0.275	0.242	8.572	7.553	1.7088E-04	1.8035E-04	-0.060
66	511	304.7	548.4	0.249	0.220	E.573	7.554	1.5491E-04	1.6349E-04	0.002
67	512	304.6	548.3	C.167	C.147	E.574	7.555	1.0356E-04	1.0929E-04	0.334
68	513	304.4	548.0	C.093	C.082	E.576	7.556	5.8061E-05	6.1275E-05	C.527
69	514	304.1	547.4	0.019	0.017	E.579	7.560	1.2011E-05	1.2676E-05	1.033
7C	515	303.E	546.5	-0.CC4	-C.CC4	E.584	7.564	-2.52C7E-06	-2.6601E-06	-0.121
71	516	303.E	546.8	-C.CC9	-C.CC8	E.583	7.563	-5.6833E-06	-5.9976E-06	0.364
72	517	303.5	546.4	-0.028	-C.C25	8.585	7.565	-1.7393E-05	-1.8355E-05	C.968
73	518	303.3	546.0	-0.032	-0.028	E.588	7.567	-1.9762E-05	-2.0854E-05	0.594
74	519	303.1	545.7	-0.027	-0.024	E.589	7.568	-1.6647E-05	-1.7567E-05	0.522
75	52C	302.9	545.3	-C.053	-C.C47	E.591	7.570	-3.2845E-05	-3.4659E-05	0.5C0

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3429E-C1 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.812	3.804	3.770
PT2/PT1	5.055E-02	5.044E-02	4.999E-02
TEMP(DEG R)	1997.2	2008.3	2105.4
TT2/TT1	0.9953	1.0008	1.0492

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 10 FRAME 26 TO 52 CONSTANT SET 411

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9486E 06	156.29	2126.03	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	156.102	2127.050	0.160	0.184	726.814	-0.291	17.6182
0.070	156.285	2127.558	0.160	0.189	727.750	-0.265	17.6142
0.140	156.285	2126.410	0.158	0.262	727.750	-0.291	17.6061
0.210	156.102	2126.414	0.160	0.802	732.421	-0.278	17.6102
0.280	156.102	2126.796	0.221	2.217	841.872	-0.304	17.6142
0.350	156.102	2126.795	0.964	3.900	1374.164	-0.291	17.6142
0.420	156.285	2127.050	3.054	5.477	1787.725	-0.291	17.6102
0.490	156.285	2126.414	5.350	6.959	1939.866	-0.291	17.6061
0.560	156.102	2126.157	6.761	7.832	1963.675	-0.291	17.6102
0.630	156.102	2126.285	7.631	8.092	2000.479	-0.304	17.6102
0.700	156.285	2126.541	8.060	8.011	2040.252	-0.304	24.2009
0.770	156.102	2127.179	8.189	7.818	2063.573	-0.291	34.9178
0.840	156.285	2126.412	8.142	7.698	2077.125	-0.304	34.8977
0.910	156.285	2126.030	8.081	7.712	2104.760	-0.304	34.9138
0.980	156.102	2126.413	8.047	7.815	2127.779	-0.304	34.9259
1.050	156.285	2126.541	8.029	7.938	2115.004	-0.304	34.9259
1.120	156.102	2126.795	8.029	8.039	2116.283	-0.291	34.9259
1.190	156.102	2126.157	8.034	8.089	2129.055	-0.291	34.9219
1.260	156.102	2125.774	8.039	8.126	2164.650	-0.304	34.9259
1.330	156.102	2126.030	8.058	8.162	2148.790	-0.317	34.9259
1.400	156.102	2125.902	8.039	8.204	2129.055	-0.304	34.9299
1.470	156.102	2126.924	8.031	8.246	2152.600	-0.291	34.9299
1.540	156.468	2126.030	8.039	8.285	2169.082	-0.291	34.9219
1.610	156.102	2125.648	8.039	8.310	2152.600	-0.291	34.9259
1.680	156.285	2125.396	8.039	8.324	2155.139	-0.304	34.9299
1.750	155.920	2126.159	8.039	8.330	2175.408	-0.304	34.9299
1.820	156.285	2126.541	8.050	8.349	2188.037	-0.278	34.9299

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1123E 06	9.4863E 05	0.305	10.63	1181.1	0.12542E 07	0.3048	1.000	RUN NO. 10
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.4863E 05	9.4863E 05	1.000	156.29	2126.0	539.34	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	103	0.254	0.0629	0.0629	0.0718	0.0757	39	314	0.248	0.0200	0.0200	0.0228	0.0241
2	105	0.271	0.0000	0.0000	0.0000	0.0000	40	315	0.247	0.0068	0.0068	0.0077	0.0082
3	107	0.255	0.0587	0.0587	0.0669	0.0706	41	316	0.245	0.0028	0.0028	0.0032	0.0033
4	108	0.254	0.0534	0.0534	0.0609	0.0642	42	317	0.245	-0.0018	-0.0018	-0.0021	-0.0022
5	110	0.253	0.0417	0.0417	0.0476	0.0502	43	318	0.245	-0.0013	-0.0013	-0.0015	-0.0016
6	111	0.252	0.0349	0.0349	0.0398	0.0420	44	319	0.244	-0.0022	-0.0022	-0.0025	-0.0027
7	112	0.251	0.0238	0.0238	0.0272	0.0287	45	320	0.244	-0.0008	-0.0008	-0.0009	-0.0010
8	113	0.251	0.0143	0.0143	0.0163	0.0172	46	406	0.249	0.1918	0.1918	0.2185	0.2304
9	114	0.249	0.0039	0.0039	0.0044	0.0046	47	407	0.249	0.2118	0.2118	0.2414	0.2545
10	115	0.249	0.0009	0.0009	0.0010	0.0011	48	408	0.248	0.2129	0.2129	0.2426	0.2558
11	116	0.247	0.0002	0.0002	0.0002	0.0003	49	409	0.248	0.2028	0.2028	0.2311	0.2436
12	117	0.247	0.0001	0.0001	0.0001	0.0001	50	410	0.248	0.1821	0.1821	0.2075	0.2187
13	118	0.246	0.0001	0.0001	0.0001	0.0001	51	411	0.248	0.1619	0.1619	0.1845	0.1945
14	119	0.246	0.0001	0.0001	0.0001	0.0001	52	412	0.247	0.1141	0.1141	0.1300	0.1370
15	120	0.245	0.0001	0.0001	0.0001	0.0001	53	413	0.246	0.0835	0.0835	0.0951	0.1002
16	203	0.252	0.0548	0.0548	0.0624	0.0658	54	414	0.246	0.0355	0.0355	0.0404	0.0426
17	205	0.253	0.0534	0.0534	0.0609	0.0642	55	415	0.246	0.0140	0.0140	0.0159	0.0168
18	207	0.252	0.0500	0.0500	0.0570	0.0601	56	416	0.245	0.0040	0.0040	0.0046	0.0048
19	208	0.252	0.0505	0.0505	0.0576	0.0607	57	417	0.245	-0.0000	-0.0000	-0.0001	-0.0001
20	210	0.251	0.0446	0.0446	0.0509	0.0537	58	418	0.245	-0.0029	-0.0029	-0.0032	-0.0034
21	211	0.250	0.0398	0.0398	0.0454	0.0479	59	419	0.245	-0.0059	-0.0059	-0.0068	-0.0071
22	212	0.250	0.0301	0.0301	0.0343	0.0362	60	420	0.244	-0.0084	-0.0084	-0.0096	-0.0101
23	213	0.249	0.0194	0.0194	0.0221	0.0233	61	506	0.249	0.2287	0.2287	0.2606	0.2748
24	214	0.248	0.0057	0.0057	0.0065	0.0068	62	507	0.248	0.2287	0.2287	0.2606	0.2747
25	215	0.248	0.0012	0.0012	0.0013	0.0014	63	508	0.248	0.2228	0.2228	0.2539	0.2676
26	216	0.247	0.0001	0.0001	0.0001	0.0001	64	509	0.247	0.1995	0.1995	0.2272	0.2396
27	217	0.247	-0.0001	-0.0001	-0.0001	-0.0001	65	510	0.247	0.2057	0.2057	0.2343	0.2470
28	218	0.246	-0.0001	-0.0001	-0.0001	-0.0001	66	511	0.247	0.1954	0.1954	0.2226	0.2347
29	219	0.246	0.0000	0.0000	0.0001	0.0001	67	512	0.247	0.1622	0.1622	0.1848	0.1948
30	220	0.246	-0.0001	-0.0001	-0.0001	-0.0001	68	513	0.247	0.1248	0.1248	0.1422	0.1499
31	306	0.251	0.0457	0.0457	0.0521	0.0550	69	514	0.246	0.0581	0.0581	0.0662	0.0697
32	307	0.251	0.0669	0.0669	0.0763	0.0804	70	515	0.246	0.0241	0.0241	0.0274	0.0289
33	308	0.250	0.0926	0.0926	0.1056	0.1114	71	516	0.246	0.0101	0.0101	0.0115	0.0122
34	309	0.250	0.0977	0.0977	0.1113	0.1174	72	517	0.246	0.0007	0.0007	0.0008	0.0009
35	310	0.250	0.0957	0.0957	0.1091	0.1150	73	518	0.245	-0.0052	-0.0052	-0.0060	-0.0063
36	311	0.249	0.0855	0.0855	0.0975	0.1028	74	519	0.245	-0.0060	-0.0060	-0.0068	-0.0072
37	312	0.249	0.0649	0.0649	0.0740	0.0780	75	520	0.245	-0.0110	-0.0110	-0.0125	-0.0132
38	313	0.248	0.0455	0.0455	0.0519	0.0547							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	9.1123E 06	9.4863E 05	0.305	10.63	1181.1	0.12542E 07	0.3048	1.000	RUN NO.	10
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.4863E 05	9.4863E 05	1.000	156.29	2126.0	539.34	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	103	317.3	571.1	0.832	0.733	13.232	11.659	2.4270E-04	2.5601E-04	0.155
2	105	338.7	609.7	0.000	0.000	12.907	11.373	2.0967E-16	2.2150E-16	*******
3	107	318.0	572.3	0.776	0.684	13.221	11.650	2.2638E-04	2.3886E-04	0.141
4	108	316.8	570.2	0.707	0.623	13.239	11.665	2.0600E-04	2.1729E-04	0.026
5	110	315.6	568.0	0.553	0.488	13.258	11.682	1.6099E-04	1.6980E-04	-0.008
6	111	314.9	566.8	0.464	0.408	13.268	11.691	1.3476E-04	1.4213E-04	0.084
7	112	313.8	564.8	0.317	0.279	13.285	11.706	9.1948E-05	9.6969E-05	0.327
8	113	312.9	563.1	0.191	0.168	13.299	11.718	5.5311E-05	5.8328E-05	0.523
9	114	311.3	560.4	0.051	0.045	13.323	11.739	1.4849E-05	1.5657E-05	0.707
10	115	310.0	558.0	0.012	0.011	13.342	11.756	3.4805E-06	3.6696E-06	0.964
11	116	309.0	556.3	0.003	0.003	13.357	11.770	8.3189E-07	8.7704E-07	1.138
12	117	308.2	554.8	0.001	0.001	13.370	11.781	3.9249E-07	4.1377E-07	1.440
13	118	307.6	553.7	0.002	0.001	13.379	11.789	4.3439E-07	4.5792E-07	1.008
14	119	307.1	552.8	0.001	0.001	13.386	11.795	2.1968E-07	2.3157E-07	0.584
15	120	306.4	551.6	0.001	0.001	13.397	11.804	2.1959E-07	2.3146E-07	3.380
16	203	314.6	566.3	0.727	0.640	13.273	11.695	2.1121E-04	2.2276E-04	0.068
17	205	315.3	567.6	0.708	0.624	13.261	11.685	2.0591E-04	2.1718E-04	0.077
18	207	315.0	567.0	0.663	0.584	13.266	11.689	1.9281E-04	2.0336E-04	0.066
19	208	314.4	565.8	0.671	0.591	13.276	11.698	1.9482E-04	2.0547E-04	-0.040
20	210	313.2	563.8	0.593	0.523	13.294	11.714	1.7216E-04	1.8155E-04	-0.119
21	211	312.7	562.8	0.530	0.467	13.302	11.721	1.5364E-04	1.6201E-04	-0.015
22	212	312.0	561.5	0.401	0.353	13.313	11.730	1.1619E-04	1.2252E-04	0.207
23	213	311.2	560.2	0.259	0.228	13.324	11.740	7.4933E-05	7.9011E-05	0.399
24	214	310.0	558.1	0.076	0.067	13.342	11.756	2.1902E-05	2.3092E-05	0.610
25	215	309.2	556.5	0.015	0.014	13.355	11.768	4.4408E-06	4.6818E-06	0.664
26	216	308.5	555.3	0.001	0.001	13.365	11.777	4.1139E-07	4.3370E-07	-0.023
27	217	307.9	554.3	-0.001	-0.001	13.374	11.785	-2.9721E-07	-3.1332E-07	-0.573
28	218	307.5	553.5	-0.001	-0.001	13.381	11.790	-2.3095E-07	-2.4346E-07	-1.502
29	219	307.2	552.9	0.001	0.001	13.386	11.795	1.8439E-07	1.9437E-07	5.263
30	220	306.7	552.0	-0.001	-0.001	13.394	11.802	-3.9220E-07	-4.1341E-07	-1.094
31	306	313.7	564.6	0.607	0.535	13.287	11.707	1.7634E-04	1.8597E-04	-0.048
32	307	313.3	563.9	0.889	0.784	13.292	11.712	2.5810E-04	2.7218E-04	0.047
33	308	312.8	563.0	1.232	1.086	13.300	11.719	3.5729E-04	3.7677E-04	0.113
34	309	312.3	562.1	1.300	1.145	13.308	11.726	3.7676E-04	3.9729E-04	0.103
35	310	311.8	561.3	1.274	1.123	13.314	11.732	3.6901E-04	3.8911E-04	0.131
36	311	311.4	560.5	1.139	1.004	13.322	11.738	3.2976E-04	3.4771E-04	0.223
37	312	310.6	559.1	0.866	0.763	13.333	11.749	2.5041E-04	2.6403E-04	0.358
38	313	310.2	558.4	0.607	0.535	13.340	11.754	1.7555E-04	1.8509E-04	0.435
39	314	309.3	556.8	0.267	0.236	13.353	11.766	7.7240E-05	8.1433E-05	0.486
40	315	308.6	555.4	0.091	0.080	13.364	11.776	2.6204E-05	2.7625E-05	0.562
41	316	305.6	550.1	0.037	0.033	13.410	11.816	1.0752E-05	1.1333E-05	0.684
42	317	305.7	550.3	-0.024	-0.021	13.408	11.814	-7.0130E-06	-7.3920E-06	0.235
43	318	305.4	549.7	-0.018	-0.016	13.412	11.818	-5.1208E-06	-5.3974E-06	0.295
44	319	305.1	549.2	-0.030	-0.026	13.417	11.822	-8.5800E-06	-9.0433E-06	0.500
45	320	304.8	548.6	-0.011	-0.010	13.422	11.826	-3.1361E-06	-3.3054E-06	-0.596
46	406	310.7	559.3	2.556	2.253	13.331	11.747	7.3949E-04	7.7971E-04	0.339
47	407	310.6	559.1	2.824	2.488	13.333	11.748	8.1681E-04	8.6123E-04	0.338
48	408	310.1	558.3	2.840	2.503	13.340	11.755	8.2101E-04	8.6563E-04	0.317
49	409	309.8	557.6	2.706	2.385	13.346	11.759	7.8194E-04	8.2441E-04	0.278
50	410	309.5	557.1	2.431	2.142	13.350	11.763	7.0218E-04	7.4030E-04	0.269
51	411	309.1	556.3	2.163	1.906	13.357	11.769	6.2443E-04	6.5832E-04	0.298
52	412	308.5	555.3	1.525	1.344	13.365	11.777	4.3986E-04	4.6372E-04	0.412
53	413	307.3	553.1	1.118	0.985	13.384	11.793	3.2190E-04	3.3933E-04	0.489
54	414	307.2	553.0	0.475	0.418	13.385	11.794	1.3670E-04	1.4410E-04	0.548
55	415	306.8	552.2	0.187	0.165	13.392	11.800	5.3790E-05	5.6701E-05	0.591
56	416	306.1	551.1	0.054	0.047	13.401	11.808	1.5450E-05	1.6285E-05	0.841
57	417	305.7	550.2	-0.001	-0.001	13.408	11.814	-1.8315E-07	-1.9305E-07	-23.483
58	418	305.5	549.9	-0.038	-0.034	13.411	11.817	-1.0987E-05	-1.1581E-05	0.200
59	419	305.3	549.6	-0.080	-0.070	13.414	11.819	-2.2862E-05	-2.4097E-05	0.368
60	420	305.2	549.4	-0.113	-0.100	13.415	11.821	-3.2471E-05	-3.4224E-05	0.280
61	506	310.6	559.1	3.049	2.687	13.333	11.748	8.8193E-04	9.2988E-04	0.335
62	507	310.2	558.3	3.050	2.688	13.340	11.754	8.8175E-04	9.2967E-04	0.320
63	508	309.6	557.2	2.974	2.621	13.349	11.763	8.5912E-04	9.0577E-04	0.319
64	509	308.7	555.6	2.666	2.349	13.363	11.774	7.6914E-04	8.1086E-04	0.242
65	510	308.9	556.1	2.747	2.421	13.359	11.771	7.9302E-04	8.3605E-04	0.256
66	511	308.7	555.7	2.611	2.300	13.362	11.774	7.5332E-04	7.9419E-04	0.257
67	512	308.5	555.3	2.168	1.910	13.366	11.777	6.2933E-04	6.5924E-04	0.370
68	513	308.1	554.6	1.669	1.471	13.371	11.782	4.9131E-04	5.0740E-04	0.462
69	514	307.6	553.6	0.777	0.685	13.380	11.789	2.2392E-04	2.3605E-04	0.546
70	515	306.8	552.3	0.323	0.284	13.391	11.799	9.2888E-05	9.7915E-05	0.572
71	516	307.0	552.5	0.136	0.120	13.389	11.797	3.9059E-05	4.1173E-05	0.671
72	517	306.6	551.9	0.010	0.009	13.395	11.802	2.8344E-06	2.9878E-06	1.816
73	518	306.1	551.0	-0.070	-0.062	13.402	11.809	-2.0159E-05	-2.1291E-05	0.501
74	519	305.8	550.5	-0.080	-0.070	13.406	11.813	-2.3005E-05	-2.4249E-05	0.523
75	520	305.4	549.6	-0.147	-0.130	13.413	11.819	-4.2358E-05	-4.4646E-05	0.327

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6631E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.423	8.050	8.349
PT2/PT1	5.389E-02	5.151E-02	5.342E-02
TEMP(DEG R)	2105.4	2188.0	2263.2
TT2/TT1	0.9903	1.0292	1.0645

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

9.5 FT. HT DATA TEST NO. 182 RUN NO. 11 FRAME 26 TO 52 CONSTANT SET 412

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1962E 07		304.76	2053.28	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	305.313	2053.672	0.278	0.268	785.472	-0.310	17.6084
0.070	305.496	2053.152	0.275	0.302	785.472	-0.297	17.6003
0.140	305.313	2053.154	0.275	0.609	789.059	-0.310	17.6044
0.210	305.313	2053.025	0.296	2.394	810.401	-0.323	17.6044
0.280	304.764	2053.411	0.623	5.853	1090.562	-0.310	17.6044
0.350	305.313	2053.541	3.154	8.859	1670.325	-0.310	17.6044
0.420	305.496	2053.023	8.022	11.954	1899.924	-0.297	17.6003
0.490	305.313	2053.025	11.924	14.270	1941.855	-0.297	17.6003
0.560	304.764	2053.025	14.207	15.274	1978.825	-0.323	17.6044
0.630	304.764	2053.412	15.461	15.363	2007.022	-0.323	17.6044
0.700	305.313	2053.540	15.851	15.095	2030.502	-0.323	34.9103
0.770	305.496	2053.152	15.767	14.843	2060.341	-0.297	34.9062
0.840	304.764	2053.155	15.583	14.854	2077.125	-0.310	34.9062
0.910	304.764	2053.282	15.474	15.084	2091.926	-0.336	34.9143
0.980	304.764	2053.282	15.422	15.338	2086.140	-0.336	34.9143
1.050	305.313	2053.800	15.438	15.537	2089.998	-0.323	34.9143
1.120	305.496	2053.153	15.459	15.654	2096.422	-0.310	34.9062
1.190	305.313	2052.765	15.451	15.696	2086.140	-0.310	34.9143
1.260	305.313	2053.026	15.435	15.730	2071.967	-0.336	34.9224
1.330	305.313	2052.895	15.427	15.755	2082.278	-0.336	34.9224
1.400	305.313	2053.799	15.438	15.794	2098.989	-0.310	34.9224
1.470	305.678	2053.153	15.459	15.850	2118.201	-0.310	34.9103
1.540	305.313	2052.764	15.453	15.931	2104.760	-0.323	34.9183
1.610	305.313	2052.894	15.451	15.990	2105.401	-0.336	34.9183
1.680	305.313	2052.894	15.438	16.004	2102.837	-0.336	34.9183
1.750	305.496	2053.798	15.432	16.032	2111.805	-0.323	34.9183
1.820	305.678	2053.669	15.432	16.074	-2124.589	-0.310	34.9103

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.4384E 06	1.9624E 06	0.305	20.73	1140.7	0.12071E 07	0.3048	1.000	RUN NO. 11
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9624E 06	1.9624E 06	1.000	304.76	2053.3	519.09	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	103	0.268	0.0558	0.0558	0.0638	0.0674	39	314	0.259	0.0956	0.0956	0.1091	0.1152
2	105	0.282	0.0000	0.0000	0.0000	0.0000	40	315	0.258	0.0540	0.0540	0.0617	0.0651
3	107	0.270	0.0518	0.0518	0.0592	0.0626	41	316	0.253	0.0189	0.0189	0.0215	0.0227
4	108	0.268	0.0525	0.0525	0.0600	0.0634	42	317	0.254	0.0128	0.0128	0.0146	0.0154
5	110	0.267	0.0498	0.0498	0.0569	0.0601	43	318	0.253	0.0045	0.0045	0.0051	0.0054
6	111	0.266	0.0459	0.0459	0.0525	0.0554	44	319	0.253	-0.0007	-0.0007	-0.0008	-0.0009
7	112	0.264	0.0385	0.0385	0.0441	0.0465	45	320	0.253	-0.0030	-0.0030	-0.0034	-0.0036
8	113	0.263	0.0287	0.0287	0.0328	0.0346	46	406	0.261	0.2842	0.2842	0.3246	0.3426
9	114	0.261	0.0133	0.0133	0.0152	0.0160	47	407	0.261	0.2891	0.2891	0.3302	0.3486
10	115	0.259	0.0043	0.0043	0.0049	0.0052	48	408	0.261	0.2739	0.2739	0.3129	0.3302
11	116	0.258	0.0011	0.0011	0.0013	0.0013	49	409	0.260	0.2606	0.2606	0.2976	0.3140
12	117	0.257	0.0003	0.0003	0.0003	0.0004	50	410	0.260	0.2385	0.2385	0.2723	0.2874
13	118	0.256	0.0002	0.0002	0.0003	0.0003	51	411	0.259	0.2199	0.2199	0.2511	0.2649
14	119	0.255	0.0001	0.0001	0.0001	0.0001	52	412	0.258	0.1716	0.1716	0.1959	0.2067
15	120	0.254	-0.0001	-0.0001	-0.0001	-0.0001	53	413	0.256	0.1360	0.1360	0.1553	0.1638
16	203	0.265	0.0468	0.0468	0.0535	0.0565	54	414	0.256	0.0841	0.0841	0.0960	0.1012
17	205	0.266	0.0448	0.0448	0.0512	0.0541	55	415	0.256	0.0515	0.0515	0.0587	0.0620
18	207	0.266	0.0646	0.0646	0.0738	0.0779	56	416	0.255	0.0306	0.0306	0.0349	0.0368
19	208	0.265	0.0898	0.0898	0.1026	0.1084	57	417	0.254	0.0178	0.0178	0.0203	0.0214
20	210	0.263	0.1046	0.1046	0.1195	0.1262	58	418	0.254	0.0063	0.0063	0.0072	0.0076
21	211	0.263	0.1036	0.1036	0.1184	0.1250	59	419	0.254	0.0009	0.0009	0.0011	0.0011
22	212	0.262	0.0951	0.0951	0.1087	0.1147	60	420	0.253	-0.0031	-0.0031	-0.0035	-0.0037
23	213	0.261	0.0802	0.0802	0.0916	0.0967	61	506	0.261	0.2565	0.2565	0.2929	0.3092
24	214	0.259	0.0467	0.0467	0.0533	0.0562	62	507	0.261	0.2578	0.2578	0.2944	0.3108
25	215	0.258	0.0240	0.0240	0.0274	0.0289	63	508	0.260	0.2550	0.2550	0.2912	0.3073
26	216	0.257	0.0104	0.0104	0.0118	0.0125	64	509	0.259	0.2329	0.2329	0.2660	0.2807
27	217	0.256	0.0033	0.0033	0.0037	0.0039	65	510	0.259	0.2188	0.2188	0.2498	0.2636
28	218	0.256	0.0015	0.0015	0.0018	0.0019	66	511	0.259	0.2098	0.2098	0.2395	0.2527
29	219	0.255	0.0006	0.0006	0.0007	0.0007	67	512	0.258	0.1799	0.1799	0.2054	0.2167
30	220	0.254	0.0002	0.0002	0.0002	0.0002	68	513	0.258	0.1485	0.1485	0.1696	0.1789
31	306	0.265	0.2700	0.2700	0.3086	0.3258	69	514	0.257	0.0899	0.0899	0.1026	0.1083
32	307	0.264	0.2842	0.2842	0.3248	0.3429	70	515	0.256	0.0521	0.0521	0.0595	0.0627
33	308	0.264	0.2846	0.2846	0.3252	0.3433	71	516	0.256	0.0322	0.0322	0.0367	0.0387
34	309	0.263	0.2721	0.2721	0.3109	0.3282	72	517	0.255	0.0215	0.0215	0.0246	0.0259
35	310	0.263	0.2636	0.2636	0.3012	0.3179	73	518	0.255	0.0090	0.0090	0.0103	0.0108
36	311	0.262	0.2406	0.2406	0.2748	0.2901	74	519	0.254	0.0016	0.0016	0.0018	0.0019
37	312	0.261	0.1966	0.1966	0.2245	0.2370	75	520	0.254	-0.0026	-0.0026	-0.0029	-0.0031
38	313	0.260	0.1551	0.1551	0.1771	0.1869							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.4384E 06	1.9624E 06	0.305	20.73	1140.7	0.12071E 07	0.3048	1.000	RUN NO.	11
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9624E 06	1.9624E 06	1.000	304.76	2053.3	519.09	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	103	322.6	580.7	0.974	0.858	17.444	15.371	1.5060E-04	1.5906E-04	-0.020
2	105	338.7	609.6	0.000	0.000	17.104	15.071	1.4452E-17	1.5282E-17	*******
3	107	324.0	583.3	0.902	0.795	17.414	15.344	1.3474E-04	1.4760E-04	-0.037
4	108	322.3	580.1	0.916	0.807	17.451	15.377	1.4164E-04	1.4959E-04	-0.143
5	110	320.4	576.7	0.871	0.768	17.491	15.412	1.3433E-04	1.4185E-04	-0.188
6	111	319.4	574.9	0.804	0.709	17.513	15.431	1.2388E-04	1.3080E-04	-0.124
7	112	317.6	571.7	0.677	0.596	17.550	15.464	1.0396E-04	1.0976E-04	0.071
8	113	316.2	569.1	0.504	0.445	17.580	15.491	7.7381E-05	8.1688E-05	0.201
9	114	313.7	564.7	0.234	0.206	17.632	15.536	3.5803E-05	3.7789E-05	0.258
10	115	311.7	561.0	0.076	0.067	17.675	15.574	1.1619E-05	1.2262E-05	0.141
11	116	310.1	558.2	0.019	0.017	17.709	15.604	2.9526E-06	3.1156E-06	-0.305
12	117	308.8	555.9	0.005	0.005	17.736	15.628	8.2113E-07	8.6638E-07	-0.828
13	118	307.8	554.0	0.004	0.004	17.758	15.647	6.3209E-07	6.6687E-07	-0.197
14	119	307.0	552.6	0.002	0.001	17.774	15.661	2.3137E-07	2.4409E-07	-0.158
15	120	305.8	550.5	-0.002	-0.002	17.800	15.684	-2.6008E-07	-2.7435E-07	0.499
16	203	318.5	573.4	0.821	0.723	17.530	15.447	1.2628E-04	1.3334E-04	-0.138
17	205	319.8	575.6	0.784	0.691	17.504	15.423	1.2077E-04	1.2753E-04	-0.125
18	207	319.3	574.7	1.131	0.996	17.515	15.433	1.7415E-04	1.8388E-04	0.010
19	208	318.1	572.7	1.575	1.388	17.539	15.454	2.4216E-04	2.5567E-04	0.014
20	210	316.2	569.1	1.839	1.620	17.580	15.490	2.8204E-04	2.9774E-04	-0.049
21	211	315.6	568.1	1.823	1.607	17.592	15.501	2.7946E-04	2.9500E-04	-0.033
22	212	314.4	566.0	1.676	1.477	17.617	15.523	2.5647E-04	2.7071E-04	0.103
23	213	313.3	563.9	1.415	1.247	17.642	15.545	2.1625E-04	2.2823E-04	0.221
24	214	311.3	560.3	0.825	0.727	17.684	15.582	1.2578E-04	1.3274E-04	0.295
25	215	309.8	557.6	0.425	0.374	17.715	15.609	6.4607E-05	6.8172E-05	0.312
26	216	308.8	555.8	0.184	0.162	17.736	15.628	2.7939E-05	2.9479E-05	0.385
27	217	307.8	554.1	0.058	0.051	17.757	15.646	8.7915E-06	9.2752E-06	0.480
28	218	307.1	552.8	0.027	0.024	17.773	15.660	4.1630E-06	4.3919E-06	0.568
29	219	306.5	551.6	0.010	0.009	17.786	15.672	1.5797E-06	1.6664E-06	0.921
30	220	305.7	550.3	0.003	0.003	17.802	15.686	4.5551E-07	4.8050E-07	3.093
31	306	318.5	573.3	4.733	4.170	17.530	15.447	7.2818E-04	7.6883E-04	0.254
32	307	317.8	572.1	4.986	4.393	17.545	15.460	7.6641E-04	8.0916E-04	0.240
33	308	317.1	570.9	4.997	4.403	17.560	15.472	7.6737E-04	8.1014E-04	0.231
34	309	316.4	569.4	4.783	4.214	17.576	15.487	7.3377E-04	7.7461E-04	0.203
35	310	315.7	568.2	4.637	4.086	17.591	15.500	7.1073E-04	7.5026E-04	0.197
36	311	314.8	566.7	4.236	3.733	17.609	15.516	6.4864E-04	6.8467E-04	0.231
37	312	313.6	564.4	3.467	3.055	17.635	15.539	5.2996E-04	5.5935E-04	0.306
38	313	312.8	563.1	2.737	2.412	17.651	15.553	4.1802E-04	4.4118E-04	0.348
39	314	311.3	560.4	1.690	1.489	17.683	15.581	2.5766E-04	2.7191E-04	0.364
40	315	310.0	558.0	0.957	0.843	17.711	15.606	1.4562E-04	1.5365E-04	0.360
41	316	304.3	547.8	0.337	0.297	17.831	15.712	5.0896E-05	5.3684E-05	-0.298
42	317	304.9	548.9	0.228	0.201	17.819	15.701	3.4534E-05	3.6427E-05	0.416
43	318	304.3	547.8	0.080	0.070	17.832	15.712	1.2018E-05	1.2676E-05	0.437
44	319	303.8	546.8	-0.013	-0.011	17.843	15.722	-1.9410E-06	-2.0472E-06	-0.494
45	320	303.5	546.4	-0.054	-0.047	17.848	15.727	-8.0955E-06	-8.5384E-06	0.138
46	406	314.2	565.5	5.008	4.412	17.622	15.528	7.6613E-04	8.0865E-04	0.282
47	407	314.2	565.5	5.095	4.489	17.623	15.528	7.7943E-04	8.2269E-04	0.276
48	408	313.4	564.1	4.832	4.257	17.639	15.542	7.3847E-04	7.7942E-04	0.242
49	409	312.8	563.1	4.599	4.052	17.651	15.553	7.0239E-04	7.4131E-04	0.220
50	410	312.4	562.2	4.212	3.711	17.661	15.562	6.4283E-04	6.7842E-04	0.215
51	411	311.7	561.0	3.886	3.424	17.676	15.575	5.9266E-04	6.2544E-04	0.230
52	412	310.6	559.0	3.037	2.676	17.699	15.595	4.6251E-04	4.8806E-04	0.298
53	413	308.2	554.8	2.415	2.128	17.749	15.639	3.6661E-04	3.8680E-04	0.339
54	414	308.0	554.3	1.493	1.316	17.754	15.644	2.2661E-04	2.3908E-04	0.369
55	415	307.2	552.9	0.915	0.806	17.771	15.659	1.3872E-04	1.4635E-04	0.364
56	416	306.1	551.0	0.544	0.479	17.793	15.678	8.2331E-05	8.6851E-05	0.387
57	417	305.3	549.6	0.317	0.279	17.810	15.693	4.7970E-05	5.0601E-05	0.434
58	418	305.2	549.3	0.112	0.099	17.814	15.696	1.6990E-05	1.7922E-05	0.366
59	419	304.9	548.8	0.017	0.015	17.820	15.701	2.4945E-06	2.6312E-06	1.255
60	420	304.6	548.3	-0.055	-0.049	17.826	15.707	-8.3824E-06	-8.8417E-06	0.224
61	506	314.1	565.4	4.520	3.983	17.624	15.529	6.9144E-04	7.2981E-04	0.249
62	507	313.4	564.0	4.547	4.007	17.640	15.543	6.9498E-04	7.3351E-04	0.243
63	508	312.5	562.6	4.502	3.967	17.657	15.558	6.8732E-04	7.2538E-04	0.222
64	509	311.3	560.3	4.119	3.630	17.684	15.582	6.2789E-04	6.6260E-04	0.188
65	510	311.5	560.6	3.868	3.408	17.680	15.578	5.8964E-04	6.2224E-04	0.185
66	511	310.9	559.6	3.711	3.270	17.692	15.589	5.6535E-04	5.9659E-04	0.191
67	512	310.5	558.8	3.185	2.806	17.701	15.597	4.8489E-04	5.1166E-04	0.269
68	513	309.8	557.6	2.631	2.319	17.716	15.610	4.0033E-04	4.2241E-04	0.329
69	514	308.7	555.7	1.595	1.406	17.738	15.630	2.4237E-04	2.5572E-04	0.363
70	515	307.7	553.8	0.926	0.816	17.761	15.649	1.4042E-04	1.4815E-04	0.365
71	516	307.6	553.7	0.572	0.504	17.761	15.650	8.6725E-05	9.1496E-05	0.370
72	517	306.8	552.3	0.383	0.337	17.778	15.665	5.8044E-05	6.1234E-05	0.527
73	518	306.2	551.2	0.160	0.141	17.791	15.676	2.4253E-05	2.5585E-05	0.521
74	519	305.6	550.2	0.028	0.024	17.803	15.687	4.1798E-06	4.4091E-06	0.105
75	520	304.8	548.7	-0.046	-0.040	17.821	15.702	-6.9409E-06	-7.3213E-06	0.211

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3334E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.715	15.432	16.074
PT2/PT1	5.484E-02	5.064E-02	5.274E-02
TEMP(DEG R)	2037.0	2124.6	2175.4
TT2/TT1	0.9921	1.0347	1.0595

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 12 FRAME 26 TC 51 CONSTANT SET 212

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2005E 07	304.95	2027.83	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	305.496	2027.965	0.286	0.317	779.173	-0.292	17.5814
0.070	305.496	2027.836	0.281	0.320	778.271	-0.279	17.6097
0.140	304.947	2027.836	0.275	0.376	778.271	-0.318	17.6097
0.210	304.947	2027.835	0.278	0.787	780.075	-0.305	17.6218
0.280	305.496	2028.094	0.302	2.781	809.518	-0.318	17.6137
0.350	305.496	2027.963	0.707	6.327	1139.722	-0.305	17.6016
0.420	305.496	2027.572	3.519	9.232	1702.332	-0.305	17.6056
0.490	304.947	2027.833	8.449	12.314	1907.939	-0.318	17.6056
0.560	305.496	2027.962	12.154	14.540	1968.950	-0.318	17.6097
0.630	304.947	2028.093	14.320	15.445	1962.355	-0.318	17.6056
0.700	305.496	2028.481	15.542	15.516	2014.861	-0.305	17.6016
0.770	305.496	2027.571	15.924	15.328	2049.335	-0.305	34.9168
0.840	304.947	2028.091	15.840	15.138	2033.104	-0.279	34.9208
0.910	304.947	2027.831	15.621	15.186	2044.796	-0.318	34.9249
0.980	304.947	2028.482	15.511	15.356	2070.677	-0.318	34.9249
1.050	305.678	2028.091	15.461	15.513	2089.998	-0.318	34.9128
1.120	305.496	2027.963	15.463	15.656	2087.922	-0.305	34.9208
1.190	305.496	2028.352	15.479	15.773	2095.780	-0.318	34.9208
1.260	305.496	2028.092	15.482	15.840	2070.031	-0.318	34.9289
1.330	305.496	2028.352	15.484	15.913	2075.836	-0.318	34.9249
1.400	304.947	2028.352	15.490	15.952	2068.740	-0.305	34.9208
1.470	305.678	2028.090	15.490	16.022	2079.703	-0.292	34.9208
1.610	304.947	2027.962	15.487	16.117	2070.031	-0.331	34.9289
1.680	304.947	2028.481	15.484	16.139	2055.165	-0.318	34.9289
1.750	305.496	2028.091	15.484	16.156	2085.496	-0.305	34.9289

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.5794E C6	2.0054E 06	0.305	20.74	1126.6	0.1159E 07	0.3048	1.CCO	RUN NO.	12
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.CC54E C6	2.CC54E 06	1.CCO	304.95	2027.8	512.03	1.0000	1.C00	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.CCO)	H/HS(0.90E)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.267	0.2812	0.2812	0.3215	0.3395	34	208	0.270	0.0361	0.0361	0.0413	0.0437
2	2	0.286	C.CCCO	C.CCCO	C.CCCO	0.CCCO	35	210	0.269	C.0238	0.0238	0.0272	0.0287
3	3	0.267	C.2825	0.2825	C.3230	0.3411	36	301	0.269	0.1448	0.1448	0.1656	0.1749
4	4	C.267	C.2922	0.2922	0.3341	C.3529	37	302	0.270	0.1468	0.1468	0.1680	0.1774
5	5	0.267	0.2901	0.2901	0.3317	0.3503	38	303	C.271	0.1458	0.1458	0.1868	0.1762
6	6	C.267	0.2980	C.2980	C.3408	0.3598	39	304	0.271	0.1368	0.1368	0.1565	0.1654
7	7	C.267	0.3080	0.3080	0.3522	0.3719	40	305	0.271	0.1260	0.1260	0.1442	0.1524
8	8	0.268	C.3091	0.3091	0.3535	0.3733	41	306	0.268	0.1277	0.1277	0.1460	0.1542
9	9	0.267	0.3092	0.3092	0.3536	0.3734	42	307	0.267	0.1149	0.1149	0.1314	0.1388
10	10	0.267	0.2901	0.2901	0.3317	0.3503	43	308	0.266	0.0927	0.0927	0.1059	0.1119
11	11	0.267	0.2407	0.2407	0.2752	0.2907	44	309	0.265	0.0695	0.0695	0.0795	0.0839
12	12	0.268	0.1861	0.1861	0.2129	0.2248	45	310	0.265	0.0532	0.0532	0.0609	0.0642
13	13	0.268	0.1277	0.1277	0.1461	0.1543	46	401	0.265	0.2751	0.2751	0.3145	0.3320
14	14	0.268	0.0940	0.0940	0.1075	0.1136	47	402	0.266	0.2893	0.2893	0.3308	0.3493
15	15	0.268	0.0673	0.0673	0.0770	0.0813	48	403	0.267	0.2915	0.2915	0.3334	0.3521
16	16	0.268	0.0585	0.0585	0.0669	0.0707	49	404	0.268	0.2845	0.2845	0.3254	0.3436
17	17	0.268	0.0540	0.0540	0.0618	0.0653	50	405	0.268	0.2803	0.2803	0.3206	0.3385
18	18	0.269	0.0516	0.0516	0.0590	0.0623	51	406	0.267	0.2568	0.2568	0.2936	0.3101
19	19	0.268	0.0501	0.0501	0.0574	0.0606	52	407	0.267	0.2283	0.2283	0.2610	0.2757
20	20	0.268	0.0493	0.0493	0.0564	0.0596	53	408	0.265	0.2233	0.2233	0.2553	0.2695
21	21	0.269	0.0482	0.0482	0.0551	0.0582	54	409	0.265	0.1775	0.1775	0.2029	0.2143
22	22	0.269	0.0515	0.0515	0.0589	0.0623	55	410	0.264	0.1324	0.1324	0.1514	0.1598
23	23	0.268	0.0541	0.0541	0.0619	0.0654	56	501	0.265	0.2664	0.2664	0.3045	0.3215
24	24	0.268	0.0567	0.0567	0.0648	0.0684	57	502	0.266	0.2832	0.2832	0.3238	0.3419
25	25	0.268	0.0576	0.0576	0.0659	0.0696	58	503	0.267	0.2829	0.2829	0.3235	0.3417
26	103	0.275	0.0545	0.0545	0.0624	0.0659	59	504	0.267	0.2793	0.2793	0.3194	0.3373
27	105	0.275	0.0519	0.0519	0.0594	0.0628	60	505	0.268	0.2649	0.2649	0.3030	0.3200
28	107	0.274	0.0460	0.0460	0.0526	0.0556	61	506	0.267	0.2602	0.2602	0.2975	0.3142
29	108	0.271	0.0339	0.0339	0.0389	0.0410	62	507	0.266	0.2367	0.2367	0.2706	0.2857
30	110	0.269	0.0170	0.0170	0.0195	0.0206	63	508	0.265	0.1862	0.1862	0.2129	0.2248
31	203	0.272	0.0491	0.0491	0.0562	0.0593	64	509	0.264	0.1234	0.1234	0.1411	0.1489
32	205	0.272	0.0413	0.0413	0.0473	0.0500	65	510	0.264	0.1302	0.1302	0.1488	0.1571
33	207	0.272	0.0439	0.0439	0.0502	0.0531							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5794E C6	2.0054E C6	0.305	20.74	1126.6	0.11907E 07	0.3048	1.000	RUN NO. 12
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0056E C6	2.0054E 06	1.000	304.95	2027.8	512.03	1.0000	1.000

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	316.1	569.0	4.854	4.277	17.265	15.212	7.5149E-04	7.9356E-04	0.343
2	2	338.7	609.6	0.000	0.000	16.788	14.792	2.6974E-16	2.8533E-16	*******
3	3	316.4	569.6	4.875	4.295	17.257	15.206	7.5497E-04	7.9725E-04	0.352
4	4	316.5	569.7	5.042	4.443	17.256	15.205	7.8101E-04	8.2475E-04	0.355
5	5	317.1	570.8	5.002	4.407	17.243	15.194	7.7536E-04	8.1882E-04	0.346
6	6	316.3	569.4	5.144	4.532	17.260	15.209	7.9648E-04	8.4108E-04	0.351
7	7	316.2	569.2	5.317	4.685	17.263	15.211	8.2322E-04	8.6931E-04	0.353
8	8	317.4	571.4	5.327	4.694	17.237	15.188	8.2615E-04	8.7248E-04	0.365
9	9	316.5	569.6	5.336	4.701	17.257	15.206	8.2637E-04	8.7266E-04	0.367
10	10	316.9	570.4	5.003	4.409	17.248	15.198	7.7534E-04	8.1879E-04	0.355
11	11	317.0	570.6	4.151	3.657	17.245	15.196	6.4332E-04	6.7937E-04	0.316
12	12	317.2	570.9	3.209	2.828	17.243	15.193	4.9750E-04	5.2539E-04	0.244
13	13	318.1	572.6	2.159	1.938	17.222	15.175	3.4141E-04	3.6057E-04	0.130
14	14	318.1	572.5	1.619	1.427	17.223	15.176	2.5132E-04	2.6542E-04	0.018
15	15	317.5	571.5	1.160	1.022	17.235	15.186	1.7996E-04	1.9005E-04	-0.050
16	16	317.6	571.6	1.008	0.889	17.233	15.183	1.5642E-04	1.6519E-04	-0.049
17	17	317.8	572.0	0.931	0.820	17.229	15.181	1.4444E-04	1.5255E-04	-0.065
18	18	319.3	574.8	0.887	0.782	17.197	15.153	1.3794E-04	1.4570E-04	-0.049
19	19	318.0	572.4	0.864	0.761	17.224	15.177	1.3405E-04	1.4157E-04	-0.062
20	20	317.9	572.2	0.850	0.749	17.227	15.179	1.3184E-04	1.3924E-04	-0.063
21	21	319.4	574.9	0.829	0.730	17.195	15.151	1.2885E-04	1.3609E-04	-0.116
22	22	318.5	573.3	0.887	0.782	17.214	15.168	1.3774E-04	1.4548E-04	-0.054
23	23	318.0	572.4	0.933	0.822	17.224	15.177	1.4474E-04	1.5287E-04	-0.021
24	24	317.9	572.3	0.976	0.860	17.226	15.178	1.5144E-04	1.5994E-04	-0.014
25	25	317.3	571.1	0.993	0.875	17.239	15.190	1.5395E-04	1.6258E-04	-0.006
26	103	325.6	586.1	0.929	0.819	17.064	15.036	1.4567E-04	1.5393E-04	0.005
27	105	326.6	587.9	0.884	0.779	17.043	15.017	1.3880E-04	1.4669E-04	-0.028
28	107	324.4	584.0	0.786	0.692	17.089	15.058	1.2298E-04	1.2994E-04	-0.113
29	108	321.7	579.1	0.582	0.513	17.146	15.108	9.0781E-05	9.5903E-05	-0.271
30	110	318.6	573.5	0.293	0.258	17.212	15.166	4.5481E-05	4.8036E-05	-0.190
31	203	322.1	579.8	0.841	0.741	17.138	15.101	1.3123E-04	1.3864E-04	-0.087
32	205	322.9	581.2	0.707	0.623	17.121	15.086	1.1046E-04	1.1670E-04	-0.256
33	207	321.9	579.4	0.752	0.663	17.142	15.105	1.1733E-04	1.2395E-04	-0.155
34	208	320.6	577.0	0.620	0.547	17.170	15.129	9.6594E-05	1.0204E-04	-0.272
35	210	318.3	573.0	0.410	0.361	17.218	15.171	6.3603E-05	6.7174E-05	-0.090
36	301	318.5	573.2	2.492	2.196	17.215	15.168	3.8702E-04	4.0876E-04	0.223
37	302	320.0	575.9	2.522	2.223	17.189	15.141	3.9246E-04	4.1455E-04	0.243
38	303	321.2	578.1	2.501	2.204	17.157	15.118	3.8983E-04	4.1180E-04	0.225
39	304	321.7	579.0	2.345	2.067	17.147	15.109	3.6576E-04	3.8639E-04	0.196
40	305	321.7	579.1	2.161	1.904	17.146	15.108	3.3702E-04	3.5603E-04	0.161
41	306	317.2	571.0	2.202	1.940	17.241	15.192	3.4132E-04	3.6046E-04	0.202
42	307	317.0	570.6	1.981	1.746	17.245	15.195	3.0710E-04	3.2431E-04	0.120
43	308	315.5	568.0	1.601	1.410	17.277	15.223	2.4762E-04	2.6147E-04	0.010
44	309	314.3	565.7	1.203	1.060	17.304	15.247	1.8578E-04	1.9615E-04	0.056
45	310	313.9	565.0	0.922	0.812	17.312	15.254	1.4226E-04	1.5020E-04	0.188
46	401	313.9	565.0	4.763	4.197	17.311	15.254	7.3522E-04	7.7626E-04	0.280
47	402	315.5	568.7	4.995	4.402	17.288	15.216	7.7314E-04	8.1641E-04	0.311
48	403	316.9	570.5	5.028	4.430	17.247	15.197	7.7921E-04	8.2288E-04	0.315
49	404	317.6	571.6	4.903	4.320	17.234	15.186	7.6043E-04	8.0308E-04	0.312
50	405	317.6	571.7	4.830	4.256	17.233	15.184	7.4918E-04	7.9121E-04	0.297
51	406	316.5	570.4	4.429	3.902	17.248	15.197	6.8631E-04	7.2477E-04	0.269
52	407	316.2	569.1	3.941	3.473	17.264	15.212	6.1016E-04	6.4432E-04	0.198
53	408	313.9	565.0	3.866	3.407	17.312	15.254	5.9677E-04	6.3007E-04	0.249
54	409	314.0	565.2	3.073	2.708	17.309	15.251	4.7442E-04	5.0090E-04	0.290
55	410	313.5	564.2	2.294	2.021	17.320	15.262	3.5385E-04	3.7358E-04	0.461
56	501	314.0	565.2	4.611	4.063	17.309	15.252	7.1182E-04	7.5155E-04	0.280
57	502	315.1	567.2	4.896	4.314	17.286	15.232	7.5685E-04	7.9916E-04	0.314
58	503	316.3	569.4	4.883	4.303	17.260	15.208	7.5623E-04	7.9858E-04	0.323
59	504	317.0	570.6	4.816	4.244	17.246	15.196	7.4645E-04	7.8829E-04	0.321
60	505	317.3	571.2	4.567	4.024	17.239	15.190	7.0809E-04	7.4779E-04	0.308
61	506	316.8	570.2	4.488	3.955	17.251	15.200	6.9540E-04	7.3436E-04	0.300
62	507	315.6	568.1	4.089	3.603	17.275	15.221	6.3254E-04	6.6792E-04	0.266
63	508	314.4	565.9	3.222	2.839	17.301	15.244	4.9764E-04	5.2543E-04	0.194
64	509	312.6	562.8	2.140	1.886	17.338	15.277	3.2984E-04	3.4821E-04	0.135
65	510	313.0	563.4	2.296	1.988	17.331	15.271	3.4781E-04	3.6719E-04	0.385

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3821E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.667	15.484	16.156
PT2/PT1	5.466E-02	5.078E-02	5.298E-02
TEMP(DEG R)	2051.9	2085.5	2142.4
TT2/TT1	1.0119	1.0284	1.0565

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

3.5 FT. HT DATA TEST NO. 182 RUN NO. 13 FRAME 26 TO 52 CONSTANT SET 542

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1931E 07	304.95	2073.70	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.947	2074.610	0.306	0.324	780.075	-0.305	17.6097
0.070	304.947	2075.124	0.304	0.327	780.075	-0.305	17.6218
0.140	304.947	2075.124	0.304	0.422	780.075	-0.292	17.6137
0.210	304.947	2074.092	0.306	1.129	786.369	-0.279	17.6097
0.280	304.947	2074.609	0.357	3.598	828.835	-0.292	17.6097
0.350	304.947	2074.479	1.152	7.038	1339.063	-0.305	17.6097
0.420	304.947	2074.865	4.868	10.016	1818.384	-0.292	17.6137
0.490	304.947	2074.993	9.742	13.064	1954.430	-0.305	17.6016
0.560	304.947	2074.350	12.931	14.941	1965.654	-0.292	17.6016
0.630	304.947	2073.835	14.788	15.564	1999.824	-0.292	17.6016
0.700	304.947	2073.577	15.682	15.483	2027.899	-0.305	18.3157
0.770	304.947	2073.576	15.855	15.231	2046.093	-0.305	34.8926
0.840	304.947	2073.833	15.689	15.092	2064.865	-0.305	34.9087
0.910	304.947	2073.702	15.510	15.148	2086.140	-0.279	34.9249
0.980	304.947	2073.058	15.400	15.354	2086.140	-0.292	34.9168
1.050	304.947	2073.058	15.355	15.584	2082.278	-0.318	34.9168
1.120	304.947	2073.572	15.365	15.763	2092.568	-0.318	34.9249
1.190	304.947	2073.830	15.378	15.897	2109.244	-0.292	34.9087
1.260	305.496	2073.181	15.381	15.956	2114.364	-0.292	34.9087
1.330	304.947	2073.186	15.381	15.986	2098.989	-0.305	34.9168
1.400	304.947	2072.923	15.378	16.034	2100.913	-0.318	34.9208
1.470	304.947	2073.181	15.381	16.090	2115.643	-0.318	34.9249
1.540	304.947	2073.441	15.400	16.137	2105.401	-0.292	34.9208
1.610	305.496	2073.181	15.407	16.182	2105.401	-0.292	34.9249
1.680	304.947	2072.279	15.407	16.224	2118.201	-0.292	34.9168
1.750	304.947	2072.795	15.418	16.263	2143.704	-0.318	34.9289
1.820	304.947	2073.179	15.415	16.308	2105.401	-0.318	34.9168

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.3352E 06	1.9310E 06	0.305	20.74	1152.1	0.12203E 07	0.3048	1.000	RUN NO.	13
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9310E 06	1.000	304.95	2073.7	524.76	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.264	0.2914	0.2914	0.3330	0.3515	39	208	0.269	0.0876	0.0876	0.1002	0.1058
2	2	0.279	0.0000	0.0000	0.0000	0.0000	40	210	0.268	0.0991	0.0991	0.1133	0.1197
3	3	0.265	0.2926	0.2926	0.3345	0.3532	41	211	0.264	0.1045	0.1045	0.1195	0.1261
4	4	0.265	0.3010	0.3010	0.3441	0.3633	42	212	0.263	0.0928	0.0928	0.1060	0.1119
5	5	0.265	0.3028	0.3028	0.3461	0.3654	43	213	0.262	0.0766	0.0766	0.0875	0.0923
6	6	0.265	0.3062	0.3062	0.3501	0.3696	44	214	0.260	0.0411	0.0411	0.0470	0.0496
7	7	0.265	0.3211	0.3211	0.3671	0.3876	45	215	0.260	0.0195	0.0195	0.0222	0.0235
8	8	0.265	0.3240	0.3240	0.3704	0.3911	46	306	0.266	0.2700	0.2700	0.3087	0.3260
9	9	0.265	0.3320	0.3320	0.3795	0.4007	47	307	0.266	0.2796	0.2796	0.3196	0.3375
10	10	0.265	0.3342	0.3342	0.3821	0.4034	48	308	0.265	0.2714	0.2714	0.3102	0.3275
11	11	0.266	0.3259	0.3259	0.3726	0.3934	49	309	0.264	0.2491	0.2491	0.2847	0.3006
12	12	0.266	0.3337	0.3337	0.3816	0.4029	50	310	0.264	0.2339	0.2339	0.2673	0.2822
13	13	0.267	0.3253	0.3253	0.3719	0.3927	51	311	0.263	0.2024	0.2024	0.2313	0.2441
14	14	0.267	0.3337	0.3337	0.3816	0.4030	52	312	0.262	0.1423	0.1423	0.1626	0.1716
15	15	0.267	0.2883	0.2883	0.3297	0.3481	53	313	0.261	0.1488	0.1488	0.1700	0.1794
16	16	0.267	0.2456	0.2456	0.2809	0.2966	54	314	0.260	0.0977	0.0977	0.1116	0.1177
17	17	0.268	0.1958	0.1958	0.2239	0.2365	55	315	0.259	0.0617	0.0617	0.0704	0.0743
18	18	0.268	0.1375	0.1375	0.1573	0.1661	56	316	0.258	0.0431	0.0431	0.0493	0.0520
19	19	0.268	0.0893	0.0893	0.1022	0.1079	57	317	0.257	0.0261	0.0261	0.0297	0.0314
20	20	0.268	0.0710	0.0710	0.0812	0.0858	58	318	0.257	0.0134	0.0134	0.0153	0.0162
21	21	0.269	0.0654	0.0654	0.0749	0.0791	59	319	0.257	0.0046	0.0046	0.0053	0.0056
22	22	0.268	0.0643	0.0643	0.0736	0.0777	60	320	0.257	-0.0038	-0.0038	-0.0043	-0.0046
23	23	0.268	0.0652	0.0652	0.0746	0.0788	61	506	0.264	0.2447	0.2447	0.2796	0.2952
24	24	0.268	0.0663	0.0663	0.0759	0.0801	62	507	0.263	0.2449	0.2449	0.2798	0.2954
25	25	0.267	0.0644	0.0644	0.0736	0.0778	63	508	0.262	0.2377	0.2377	0.2716	0.2867
26	103	0.273	0.0553	0.0553	0.0633	0.0669	64	509	0.261	0.2061	0.2061	0.2355	0.2485
27	105	0.274	0.0522	0.0522	0.0597	0.0631	65	510	0.262	0.2146	0.2146	0.2452	0.2588
28	107	0.274	0.0512	0.0512	0.0587	0.0620	66	511	0.261	0.2059	0.2059	0.2351	0.2482
29	108	0.272	0.0501	0.0501	0.0574	0.0606	67	512	0.261	0.1771	0.1771	0.2023	0.2135
30	110	0.271	0.0424	0.0424	0.0485	0.0513	68	513	0.260	0.1459	0.1459	0.1667	0.1759
31	111	0.270	0.0365	0.0365	0.0417	0.0441	69	514	0.260	0.0913	0.0913	0.1043	0.1100
32	112	0.268	0.0259	0.0259	0.0296	0.0313	70	515	0.259	0.0557	0.0557	0.0636	0.0672
33	113	0.267	0.0224	0.0224	0.0257	0.0271	71	516	0.259	0.0368	0.0368	0.0420	0.0443
34	114	0.265	0.0093	0.0093	0.0106	0.0112	72	517	0.258	0.0220	0.0220	0.0251	0.0265
35	115	0.264	0.0020	0.0020	0.0023	0.0024	73	518	0.257	0.0084	0.0084	0.0096	0.0101
36	203	0.269	0.0464	0.0464	0.0531	0.0561	74	519	0.257	0.0017	0.0017	0.0020	0.0021
37	205	0.270	0.0462	0.0462	0.0528	0.0558	75	520	0.256	-0.0049	-0.0049	-0.0056	-0.0059
38	207	0.270	0.0643	0.0643	0.0736	0.0777							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.3352E 06	1.9310E 06	0.305	20.74	1152.1	0.12203E 07	0.3048	1.000	RUN NO.	13
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9310E 06	1.9310E 06	1.000	304.95	2073.7	524.76	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	1	320.5	577.0	5.172	4.557	17.751	15.641	7.9110E-04	8.3518E-04	0.341
2	2	338.7	609.6	0.000	0.000	17.368	15.303	2.4719E-16	2.6131E-16	*******
3	3	321.6	578.8	5.189	4.572	17.730	15.622	7.9468E-04	8.3902E-04	0.350
4	4	321.6	578.9	5.337	4.703	17.729	15.622	8.1745E-04	8.6307E-04	0.351
5	5	322.0	579.6	5.365	4.728	17.721	15.615	8.2219E-04	8.6809E-04	0.345
6	6	321.7	579.1	5.429	4.783	17.726	15.619	8.3162E-04	8.7803E-04	0.346
7	7	321.9	579.4	5.692	5.015	17.723	15.616	8.7210E-04	9.2078E-04	0.353
8	8	322.5	580.5	5.738	5.056	17.710	15.605	8.7984E-04	9.2899E-04	0.360
9	9	322.5	580.4	5.880	5.181	17.711	15.606	9.0154E-04	9.5191E-04	0.365
10	10	322.5	580.6	5.919	5.215	17.709	15.604	9.0761E-04	9.5832E-04	0.365
11	11	322.9	581.1	5.769	5.083	17.703	15.598	8.9501E-04	9.3448E-04	0.357
12	12	323.4	582.1	5.904	5.202	17.691	15.588	9.0635E-04	9.5705E-04	0.349
13	13	324.1	583.3	5.749	5.066	17.677	15.576	8.8342E-04	9.3288E-04	0.348
14	14	324.3	583.8	5.897	5.196	17.671	15.571	9.0636E-04	9.5712E-04	0.367
15	15	324.4	583.9	5.094	4.488	17.670	15.569	7.8302E-04	8.2688E-04	0.409
16	16	324.8	584.6	4.338	3.823	17.662	15.562	6.6720E-04	7.0459E-04	0.449
17	17	325.1	585.2	3.456	3.046	17.655	15.556	5.3179E-04	5.6161E-04	0.453
18	18	325.8	586.4	2.426	2.138	17.640	15.543	3.7360E-04	3.9457E-04	0.401
19	19	325.6	586.1	1.576	1.389	17.644	15.547	2.4265E-04	2.5626E-04	0.295
20	20	325.5	585.9	1.253	1.104	17.647	15.549	1.9292E-04	2.0375E-04	0.196
21	21	326.6	587.8	1.153	1.016	17.624	15.529	1.7778E-04	1.8776E-04	0.141
22	22	325.8	586.4	1.135	1.000	17.640	15.544	1.7472E-04	1.8453E-04	0.114
23	23	325.4	585.8	1.151	1.014	17.648	15.550	1.7716E-04	1.8710E-04	0.118
24	24	325.3	585.5	1.171	1.031	17.651	15.553	1.8015E-04	1.9026E-04	0.109
25	25	323.9	582.9	1.139	1.003	17.681	15.580	1.7493E-04	1.8472E-04	0.086
26	103	331.4	596.6	0.969	0.854	17.521	15.438	1.5033E-04	1.5883E-04	0.066
27	105	333.2	599.8	0.912	0.803	17.483	15.405	1.4176E-04	1.4980E-04	0.048
28	107	332.4	598.3	0.897	0.790	17.501	15.420	1.3925E-04	1.4713E-04	0.054
29	108	330.7	595.3	0.879	0.775	17.536	15.452	1.3625E-04	1.4395E-04	-0.075
30	110	328.7	591.7	0.745	0.657	17.578	15.489	1.1521E-04	1.2170E-04	-0.238
31	111	327.7	589.9	0.642	0.565	17.600	15.508	9.9035E-05	1.0461E-04	-0.255
32	112	325.8	586.4	0.457	0.403	17.640	15.543	7.0346E-05	7.4293E-05	-0.133
33	113	324.6	584.3	0.396	0.349	17.665	15.565	6.0953E-05	6.4368E-05	0.139
34	114	322.4	580.3	0.165	0.145	17.712	15.607	2.5264E-05	2.6675E-05	0.126
35	115	320.3	576.5	0.035	0.031	17.757	15.646	5.3854E-06	5.6854E-06	-0.494
36	203	327.2	588.9	0.817	0.720	17.611	15.518	1.2607E-04	1.3316E-04	-0.053
37	205	328.3	590.9	0.812	0.715	17.588	15.498	1.2542E-04	1.3248E-04	-0.011
38	207	327.9	590.2	1.132	0.997	17.596	15.505	1.7478E-04	1.8462E-04	0.074
39	208	326.8	588.2	1.543	1.360	17.620	15.525	2.3798E-04	2.5136E-04	0.090
40	210	325.1	585.2	1.749	1.542	17.655	15.556	2.6916E-04	2.8425E-04	0.007
41	211	320.5	576.8	1.856	1.635	17.753	15.643	2.8383E-04	2.9964E-04	0.101
42	212	319.9	575.8	1.648	1.452	17.765	15.653	2.5187E-04	2.6589E-04	0.202
43	213	318.5	573.3	1.362	1.200	17.794	15.679	2.0785E-04	2.1940E-04	0.293
44	214	316.4	569.6	0.734	0.647	17.838	15.718	1.1166E-04	1.1785E-04	0.353
45	215	315.3	567.6	0.348	0.306	17.862	15.739	5.2819E-05	5.5742E-05	0.386
46	306	322.8	581.0	4.781	4.212	17.704	15.600	7.3333E-04	7.7432E-04	0.315
47	307	322.7	580.9	4.950	4.362	17.705	15.601	7.5932E-04	8.0175E-04	0.310
48	308	321.9	579.4	4.809	4.238	17.723	15.617	7.3687E-04	7.7800E-04	0.277
49	309	321.1	578.1	4.419	3.894	17.739	15.630	6.7651E-04	7.1423E-04	0.230
50	310	320.6	577.0	4.152	3.658	17.751	15.641	6.3503E-04	6.7042E-04	0.204
51	311	319.3	574.8	3.598	3.171	17.777	15.664	5.4955E-04	5.8012E-04	0.241
52	312	318.2	572.8	2.533	2.232	17.801	15.685	3.8627E-04	4.0773E-04	0.232
53	313	316.8	570.2	2.654	2.339	17.831	15.712	4.0402E-04	4.2642E-04	0.364
54	314	316.2	569.2	1.743	1.536	17.843	15.722	2.6515E-04	2.7983E-04	0.370
55	315	315.2	567.3	1.102	0.971	17.865	15.742	1.6739E-04	1.7665E-04	0.373
56	316	313.9	564.2	0.772	0.681	17.901	15.774	1.1708E-04	1.2355E-04	0.460
57	317	312.8	563.1	0.467	0.411	17.915	15.786	7.0718E-05	7.4618E-05	0.440
58	318	312.6	562.6	0.241	0.212	17.920	15.790	3.6426E-05	3.8434E-05	0.505
59	319	312.3	562.2	0.083	0.073	17.926	15.795	1.2573E-05	1.3266E-05	1.299
60	320	312.2	562.0	-0.068	-0.060	17.928	15.797	-1.0268E-05	-1.0834E-05	-1.291
61	506	320.4	576.7	4.344	3.828	17.755	15.645	6.6431E-04	7.0132E-04	0.314
62	507	319.6	575.3	4.352	3.835	17.771	15.659	6.6488E-04	7.0188E-04	0.325
63	508	318.8	573.9	4.228	3.726	17.788	15.674	6.4536E-04	6.8124E-04	0.326
64	509	317.4	571.4	3.673	3.236	17.817	15.699	5.5956E-04	5.9061E-04	0.245
65	510	318.1	572.5	3.821	3.367	17.804	15.687	5.8262E-04	6.1498E-04	0.241
66	511	317.5	571.5	3.668	3.232	17.816	15.698	5.5881E-04	5.8982E-04	0.245
67	512	317.1	570.7	3.196	2.781	17.825	15.706	4.8067E-04	5.0733E-04	0.321
68	513	316.3	569.4	2.604	2.294	17.841	15.720	3.9611E-04	4.1806E-04	0.373
69	514	315.3	567.6	1.631	1.437	17.862	15.739	2.4782E-04	2.6153E-04	0.418
70	515	314.1	565.4	0.997	0.879	17.887	15.761	1.5129E-04	1.5965E-04	0.431
71	516	314.1	565.4	0.658	0.580	17.888	15.762	9.9629E-05	1.0514E-04	0.503
72	517	313.3	564.0	0.393	0.347	17.904	15.776	5.9616E-05	6.2906E-05	0.536
73	518	312.8	563.0	0.151	0.133	17.916	15.786	2.2817E-05	2.4075E-05	1.035
74	519	312.2	562.0	0.031	0.028	17.928	15.797	4.7281E-06	4.9887E-06	1.905
75	520	311.6	560.9	-0.088	-0.077	17.940	15.808	-1.3300E-05	-1.4033E-05	-1.550

FREE-STREAM DENSITY-VELOCITY PRODUCT = 9.2966E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.834	15.415	16.308
PT2/PT1	5.520E-02	5.055E-02	5.348E-02
TEMP(DEG R)	2076.5	2105.4	2203.2
TT2/TT1	1.0013	1.0153	1.0624

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. PT DATA TEST NO. 182 RUN NO. 14 FRAME 25 TC 52 CONSTANT SET 541

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10 0.1040E 07	156.10	2012.55	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IA POS
0.000	155.920	2010.591	0.169	0.220	610.200	-0.286	17.6074
0.070	155.920	2012.025	0.164	0.237	610.200	-0.286	17.6074
0.140	155.920	2011.764	0.168	0.371	610.200	-0.299	17.6155
0.210	155.920	2012.154	0.169	1.155	610.200	-0.286	17.6074
0.280	155.920	2012.024	0.322	2.891	610.200	-0.286	17.5873
0.350	155.920	2010.984	1.549	4.415	610.200	-0.286	17.5913
0.420	155.920	2011.766	3.926	5.992	610.200	-0.286	17.6074
0.490	155.920	2011.508	5.770	7.295	610.200	-0.299	17.6115
0.560	155.920	2012.415	6.897	7.910	610.200	-0.299	17.6115
0.630	155.920	2012.155	7.656	7.994	610.200	-0.286	17.6074
0.700	155.920	2012.026	8.007	7.714	610.200	-0.299	34.8154
0.770	155.737	2011.764	8.049	7.295	610.200	-0.286	34.8921
0.840	155.920	2012.025	7.980	7.127	610.200	-0.299	34.9284
0.910	156.102	2012.546	7.938	7.178	610.200	-0.299	34.9284
0.980	155.920	2012.416	7.930	7.295	610.200	-0.299	34.9284
1.050	155.920	2011.373	7.912	7.424	610.200	-0.286	34.9203
1.120	155.737	2011.766	7.883	7.505	610.200	-0.299	34.9243
1.190	155.920	2012.156	7.893	7.561	610.200	-0.312	34.9324
1.260	156.102	2012.545	7.922	7.631	610.200	-0.312	34.9284
1.330	155.920	2012.546	7.923	7.706	610.200	-0.286	34.9243
1.400	155.920	2012.025	7.912	7.726	610.200	-0.286	34.9243
1.470	155.920	2011.766	7.901	7.731	610.200	-0.299	34.9243
1.540	155.920	2012.286	7.922	7.742	610.200	-0.299	34.9324
1.610	155.920	2012.676	7.938	7.762	610.200	-0.299	34.9324
1.680	156.102	2012.936	7.951	7.775	610.200	-0.286	34.9243
1.750	156.668	2012.285	7.938	7.790	610.200	-0.286	34.9203
1.820	155.920	2011.766	7.930	7.798	610.200	-0.286	34.9284
1.890	155.920	2012.285	7.925	7.818	610.200	-0.312	34.9324

ORIGINAL PAGE IS OF POOR QUALITY

C-2

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.4113E 06	1.0398E 06	0.305	10.62	1118.1	0.1180E 07	0.3048	1.000	RUN NO.	14
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0398E 06	1.0398E 06	1.000	156.10	2012.5	507.80	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.268	0.2874	0.2874	0.3287	0.3472	39	208	0.268	0.0452	0.0452	0.0517	0.0546
2	2	0.268	0.0000	0.0000	0.0000	0.0000	40	210	0.267	0.0354	0.0354	0.0404	0.0427
3	3	0.268	0.2903	0.2903	0.3321	0.3507	41	211	0.265	0.0353	0.0353	0.0403	0.0426
4	4	0.268	0.2939	0.2939	0.3361	0.3550	42	212	0.267	0.0218	0.0218	0.0249	0.0263
5	5	0.268	0.2896	0.2896	0.3313	0.3499	43	213	0.264	0.0147	0.0147	0.0168	0.0178
6	6	0.268	0.2851	0.2851	0.3261	0.3444	44	214	0.263	-0.0002	-0.0002	-0.0003	-0.0003
7	7	0.268	0.2694	0.2694	0.3081	0.3254	45	215	0.263	-0.0056	-0.0056	-0.0064	-0.0068
8	8	0.268	0.2346	0.2346	0.2683	0.2834	46	306	0.267	0.0393	0.0393	0.0450	0.0475
9	9	0.268	0.1971	0.1971	0.2254	0.2380	47	307	0.267	0.0491	0.0491	0.0561	0.0593
10	10	0.267	0.1594	0.1594	0.1823	0.1925	48	308	0.267	0.0663	0.0663	0.0758	0.0801
11	11	0.267	0.1248	0.1248	0.1427	0.1507	49	309	0.266	0.0694	0.0694	0.0793	0.0838
12	12	0.267	0.1059	0.1059	0.1211	0.1279	50	310	0.266	0.0685	0.0685	0.0783	0.0827
13	13	0.268	0.0828	0.0828	0.0947	0.1000	51	311	0.265	0.0549	0.0549	0.0628	0.0663
14	14	0.267	0.0711	0.0711	0.0813	0.0858	52	312	0.265	0.0276	0.0276	0.0315	0.0333
15	15	0.267	0.0565	0.0565	0.0647	0.0683	53	313	0.264	0.0441	0.0441	0.0505	0.0533
16	16	0.267	0.0544	0.0544	0.0622	0.0657	54	314	0.264	0.0206	0.0206	0.0236	0.0249
17	17	0.267	0.0563	0.0563	0.0644	0.0680	55	315	0.263	0.0069	0.0069	0.0079	0.0083
18	18	0.268	0.0592	0.0592	0.0677	0.0715	56	316	0.263	0.0044	0.0044	0.0050	0.0053
19	19	0.268	0.0603	0.0603	0.0690	0.0729	57	317	0.263	-0.0023	-0.0023	-0.0026	-0.0028
20	20	0.268	0.0629	0.0629	0.0719	0.0759	58	318	0.262	-0.0060	-0.0060	-0.0069	-0.0073
21	21	0.268	0.0625	0.0625	0.0715	0.0755	59	319	0.262	-0.0099	-0.0099	-0.0113	-0.0119
22	22	0.268	0.0655	0.0655	0.0750	0.0792	60	320	0.262	-0.0097	-0.0097	-0.0110	-0.0117
23	23	0.268	0.0684	0.0684	0.0782	0.0826	61	506	0.267	0.2301	0.2301	0.2632	0.2779
24	24	0.268	0.0729	0.0729	0.0834	0.0881	62	507	0.267	0.2312	0.2312	0.2644	0.2792
25	25	0.268	0.0739	0.0739	0.0845	0.0892	63	508	0.267	0.2270	0.2270	0.2596	0.2741
26	103	0.271	0.0636	0.0636	0.0728	0.0769	64	509	0.266	0.2020	0.2020	0.2310	0.2439
27	105	0.272	0.0615	0.0615	0.0704	0.0744	65	510	0.266	0.2161	0.2161	0.2471	0.2609
28	107	0.271	0.0595	0.0595	0.0681	0.0719	66	511	0.266	0.2077	0.2077	0.2375	0.2508
29	108	0.270	0.0537	0.0537	0.0615	0.0649	67	512	0.266	0.1747	0.1747	0.1997	0.2109
30	110	0.269	0.0405	0.0405	0.0464	0.0490	68	513	0.266	0.1368	0.1368	0.1564	0.1652
31	111	0.269	0.0329	0.0329	0.0376	0.0398	69	514	0.265	0.0678	0.0678	0.0775	0.0818
32	112	0.268	0.0192	0.0192	0.0220	0.0232	70	515	0.265	0.0299	0.0299	0.0341	0.0360
33	113	0.267	0.0112	0.0112	0.0128	0.0135	71	516	0.265	0.0120	0.0120	0.0137	0.0145
34	114	0.266	0.0017	0.0017	0.0020	0.0021	72	517	0.264	0.0039	0.0039	0.0045	0.0047
35	115	0.265	-0.0010	-0.0010	-0.0011	-0.0012	73	518	0.264	-0.0080	-0.0080	-0.0091	-0.0096
36	203	0.269	0.0536	0.0536	0.0613	0.0648	74	519	0.264	-0.0079	-0.0079	-0.0090	-0.0095
37	205	0.269	0.0512	0.0512	0.0586	0.0619	75	520	0.264	-0.0124	-0.0124	-0.0141	-0.0149
38	207	0.269	0.0470	0.0470	0.0538	0.0568							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.4113E C6	1.0398E C6	0.305	10.62	1118.1	0.11809E 07	0.3048	1.000	RUN NO.	14
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	HAW/HT		
5.10	1.0398E C6	1.0398E 06	1.000	156.10	2012.5	5C7.80	1.0000	1.000		

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	q(W/CM2)	q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	314.8	566.6	3.516	3.098	12.234	1C.779	1.0680E-03	1.1279E-03	0.360
2	2	236.7	609.7	0.000	C.CCO	11.873	1C.461	4.8536E-16	5.1353E-16	*******
3	3	315.2	567.3	3.550	3.128	12.228	10.775	1.0788E-03	1.1393E-03	C.376
4	4	315.1	567.3	3.594	3.166	12.228	10.775	1.0920E-03	1.1533E-03	0.374
5	5	315.2	567.4	3.542	3.121	12.228	10.774	1.0763E-03	1.1367E-03	0.372
6	6	314.9	566.9	3.487	3.073	12.232	1C.778	1.0595E-03	1.1189E-03	0.373
7	7	314.9	566.8	3.295	2.904	12.233	1C.779	1.0010E-03	1.0571E-03	C.368
8	8	314.9	566.8	2.870	2.529	12.232	10.778	8.7176E-04	9.2066E-04	0.356
9	9	314.6	566.4	2.412	2.125	12.236	10.782	7.3232E-04	7.7355E-04	0.330
10	1C	314.5	566.1	1.951	1.719	12.238	1C.784	5.9221E-04	6.2541E-04	0.294
11	11	314.4	565.9	1.527	1.346	12.240	10.785	4.6358E-04	4.8957E-04	C.250
12	12	314.4	565.9	1.296	1.142	12.240	10.785	3.9336E-04	4.1541E-04	0.203
13	13	314.5	566.2	1.013	0.893	12.238	10.783	3.0758E-04	3.2482E-04	0.155
14	14	314.5	566.0	0.870	C.766	12.239	10.784	2.6408E-04	2.7888E-04	0.092
15	15	314.3	565.8	0.692	C.610	12.241	10.786	2.1010E-04	2.2187E-04	C.040
16	16	314.4	565.8	0.666	0.586	12.240	10.785	2.0204E-04	2.1337E-04	0.042
17	17	314.5	566.0	0.690	C.608	12.239	1C.784	2.0935E-04	2.2108E-04	0.057
18	18	314.8	566.6	0.724	C.638	12.234	10.780	2.2C02E-04	2.3236E-04	0.083
19	19	314.9	566.7	0.738	C.650	12.233	10.779	2.2421E-04	2.3679E-04	C.097
20	20	314.9	566.8	0.789	0.678	12.233	10.779	2.3364E-04	2.4674E-04	0.112
21	21	315.4	567.6	0.764	0.673	12.225	1C.772	2.3229E-04	2.4533E-04	0.100
22	22	315.2	567.4	0.801	C.7C6	12.228	1C.774	2.4354E-04	2.5721E-04	0.117
23	23	315.2	567.3	0.836	C.737	12.228	10.775	2.5414E-04	2.6840E-04	C.125
24	24	315.2	567.3	0.892	0.786	12.228	10.774	2.7101E-04	2.8621E-04	0.141
25	25	314.6	566.3	C.904	0.796	12.237	10.782	2.7443E-04	2.8982E-04	0.144
26	103	318.7	573.6	0.775	C.683	12.175	10.728	2.3651E-04	2.4985E-04	0.126
27	105	319.7	575.5	0.748	C.659	12.159	10.714	2.2867E-04	2.4158E-04	0.111
28	107	319.1	574.3	0.724	0.638	12.169	10.723	2.2103E-04	2.3350E-04	0.106
29	109	318.0	572.4	0.654	0.577	12.185	10.737	1.9962E-04	2.1087E-04	-0.006
30	110	316.7	570.0	0.495	C.436	12.206	1C.755	1.5067E-04	1.5915E-04	-0.055
31	111	316.C	568.7	0.402	0.354	12.216	10.764	1.2231E-04	1.2918E-04	0.022
32	112	314.8	566.6	0.235	0.207	12.234	10.780	7.1447E-05	7.5454E-05	0.283
33	113	313.9	565.0	0.137	0.121	12.248	1C.792	4.1591E-05	4.3921E-05	0.488
34	114	312.4	562.4	0.021	C.C19	12.269	1C.811	6.3703E-06	6.7264E-06	0.730
35	115	311.2	560.2	-0.012	-0.011	12.288	1C.827	-3.7089E-06	-3.9158E-06	0.717
36	203	315.8	568.4	0.655	0.577	12.219	10.766	1.9917E-04	2.1035E-04	0.046
37	205	316.5	569.6	0.625	0.551	12.209	1C.758	1.9C31E-04	2.0101E-04	0.041
38	207	316.1	569.0	0.574	C.506	12.214	1C.762	1.7463E-04	1.8444E-04	0.021
39	208	315.4	567.8	0.552	0.487	12.224	10.771	1.6785E-04	1.7727E-04	-0.096
40	210	314.4	565.9	0.433	0.381	12.240	10.785	1.3138E-04	1.3874E-04	-0.275
41	211	312.C	561.6	0.433	0.382	12.276	1C.817	1.3103E-04	1.3834E-04	-0.004
42	212	313.5	565.1	C.267	C.235	12.247	1C.791	8.C905E-05	8.5436E-05	0.472
43	213	310.6	559.2	0.181	0.159	12.297	1C.835	5.4670E-05	5.7718E-05	C.427
44	214	309.5	557.1	-0.CC3	-0.003	12.314	10.851	-9.2563E-07	-9.7716E-07	-5.567
45	215	308.7	555.6	-0.C69	-0.061	12.327	1C.861	-2.0851E-05	-2.2C10E-05	0.235
46	3C6	314.1	565.3	C.482	C.425	12.245	1C.789	1.4619E-04	1.5438E-04	-0.071
47	3C7	313.8	564.8	0.601	0.530	12.249	10.793	1.8240E-04	1.9262E-04	0.045
48	3C8	313.4	564.1	0.813	0.716	12.255	10.798	2.4637E-04	2.6016E-04	0.045
49	3C9	312.9	563.2	0.851	C.750	12.263	1C.805	2.5782E-04	2.7224E-04	-0.008
50	31C	312.6	562.6	0.841	C.741	12.268	1C.810	2.5456E-04	2.6879E-04	0.018
51	311	311.9	561.5	0.675	0.594	12.277	10.818	2.0410E-04	2.1550E-04	0.393
52	312	311.3	560.4	0.339	0.299	12.286	10.826	1.0246E-04	1.0818E-04	0.512
53	313	310.5	558.9	0.543	0.478	12.299	1C.837	1.6397E-04	1.7311E-04	0.468
54	314	310.3	558.5	0.254	C.223	12.302	1C.840	7.6543E-05	8.0809E-05	0.569
55	315	309.8	557.6	0.085	0.075	12.310	10.847	2.5704E-05	2.7135E-05	0.848
56	316	308.8	555.8	0.054	0.048	12.325	10.860	1.6358E-05	1.7267E-05	1.195
57	317	308.7	555.6	-0.028	-0.025	12.327	10.861	-8.5136E-06	-8.9870E-06	-0.786
58	318	308.4	555.0	-0.074	-C.066	12.331	1C.866	-2.2423E-05	-2.3670E-05	0.033
59	319	308.2	554.8	-0.122	-0.108	12.333	10.867	-3.6759E-05	-3.8802E-05	0.172
60	320	308.2	554.8	-0.119	-0.105	12.334	10.867	-3.5683E-05	-3.7677E-05	-0.263
61	5C6	314.5	566.1	2.816	2.482	12.238	1C.784	8.5506E-04	9.0299E-04	0.332
62	5C7	314.1	565.4	2.831	2.494	12.244	1C.789	8.5897E-04	9.0710E-04	0.338
63	5C8	313.6	564.5	2.781	2.451	12.251	10.795	8.4345E-04	8.9067E-04	0.342
64	5C9	312.7	562.9	2.478	2.183	12.265	10.807	7.5058E-04	7.9255E-04	0.256
65	51C	313.2	563.7	2.649	2.334	12.258	10.8C1	8.0292E-04	8.4785E-04	0.249
66	511	313.1	563.6	2.546	2.244	12.259	1C.802	7.7161E-04	8.1478E-04	0.259
67	512	312.9	563.2	2.142	1.887	12.263	10.805	6.4894E-04	6.8524E-04	0.368
68	513	312.4	562.4	1.679	1.479	12.269	10.811	5.0825E-04	5.3666E-04	0.460
69	514	311.9	561.5	0.832	C.734	12.277	1C.818	2.5189E-04	2.6596E-04	0.543
70	515	311.3	560.3	C.367	C.323	12.287	1C.826	1.1C91E-04	1.1710E-04	0.573
71	516	311.3	560.3	0.147	0.130	12.287	10.826	4.4575E-05	4.7063E-05	0.667
72	517	310.9	559.6	0.046	0.043	12.293	10.832	1.4593E-05	1.5406E-05	1.203
73	518	310.6	559.4	-0.098	-0.086	12.295	1C.833	-2.9575E-05	-3.1225E-05	0.044
74	519	310.4	558.7	-0.C97	-C.C86	12.300	1C.838	-2.93C8E-05	-3.0947E-05	0.259
75	520	310.1	558.2	-0.152	-0.134	12.304	10.842	-4.5898E-05	-4.8455E-05	0.075

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7733E-01 (SLUGS/FT2-SEC)

17458087

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.102	7.925	7.818
PT2/PT1	5.190E-02	5.077E-02	5.008E-02
TEMP(DEG R)	2031.2	610.2	2088.7
TT2/TT1	1.0092	0.3032	1.0378

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 15 FRAME 25 TO 52 CONSTANT SET 541

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5203E 06	75.96	1979.22	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.590	1979.347	0.090	0.125	610.200	-0.280	17.6132
0.070	75.590	1979.085	0.090	0.133	610.200	-0.280	17.6173
0.140	75.773	1980.135	0.090	0.189	610.200	-0.254	17.6173
0.210	75.773	1978.954	0.090	0.558	610.200	-0.267	17.6052
0.280	75.407	1978.952	0.182	1.355	610.200	-0.254	17.6132
0.350	75.590	1979.218	0.746	2.127	610.200	-0.293	17.6092
0.420	75.590	1979.218	1.826	2.795	610.200	-0.267	17.6132
0.490	75.773	1980.136	2.719	3.363	610.200	-0.254	17.6173
0.560	75.773	1979.085	3.185	3.648	610.200	-0.267	17.6052
0.630	75.590	1978.955	3.496	3.721	610.200	-0.254	17.6132
0.700	75.590	1979.218	3.683	3.589	610.200	-0.293	34.8835
0.770	75.773	1979.219	3.749	3.368	610.200	-0.267	34.9359
0.840	75.773	1980.136	3.759	3.248	610.200	-0.280	34.9359
0.910	75.956	1979.218	3.738	3.240	610.200	-0.267	34.9279
0.980	75.773	1979.085	3.696	3.268	610.200	-0.254	34.9359
1.050	75.773	1979.350	3.696	3.321	610.200	-0.280	34.9359
1.120	75.773	1979.350	3.696	3.366	610.200	-0.280	34.9400
1.190	75.773	1980.267	3.696	3.396	610.200	-0.280	34.9400
1.260	75.956	1979.219	3.712	3.424	610.200	-0.267	34.9279
1.330	75.590	1978.954	3.696	3.416	610.200	-0.280	34.9359
1.400	75.773	1979.351	3.696	3.422	610.200	-0.293	34.9400
1.470	75.956	1979.481	3.707	3.447	610.200	-0.280	34.9400
1.540	75.773	1980.268	3.715	3.452	610.200	-0.280	34.9400
1.610	76.139	1979.219	3.720	3.458	610.200	-0.280	34.9279
1.680	75.773	1979.218	3.720	3.472	610.200	-0.280	34.9359
1.750	75.773	1979.482	3.720	3.491	610.200	-0.293	34.9359
1.820	75.956	1979.483	3.722	3.494	610.200	-0.280	34.9359
1.890	75.956	1980.268	3.722	3.497	610.200	-0.280	34.9400

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.7072E 06	5.2035E 05	0.305	5.17	1099.6	0.11595E 07	0.3048	1.000	RUN NO.	15
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.2035E 05	5.2035E 05	1.000	75.96	1979.2	498.60	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.271	0.0633	0.0633	0.0725	0.0765	39	208	0.271	0.0530	0.0530	0.0606	0.0641
2	2	0.293	0.0000	0.0000	0.0000	0.0000	40	210	0.270	0.0409	0.0409	0.0468	0.0495
3	3	0.271	0.0622	0.0622	0.0712	0.0752	41	211	0.269	0.0343	0.0343	0.0392	0.0414
4	4	0.271	0.0629	0.0629	0.0720	0.0760	42	212	0.271	0.0204	0.0204	0.0234	0.0247
5	5	0.271	0.0623	0.0623	0.0713	0.0753	43	213	0.268	0.0143	0.0143	0.0163	0.0173
6	6	0.271	0.0621	0.0621	0.0710	0.0750	44	214	0.267	0.0035	0.0035	0.0040	0.0042
7	7	0.271	0.0616	0.0616	0.0705	0.0745	45	215	0.267	0.0008	0.0008	0.0010	0.0010
8	8	0.271	0.0613	0.0613	0.0702	0.0741	46	306	0.270	0.0517	0.0517	0.0591	0.0624
9	9	0.270	0.0604	0.0604	0.0691	0.0730	47	307	0.270	0.0505	0.0505	0.0578	0.0610
10	10	0.270	0.0607	0.0607	0.0695	0.0734	48	308	0.270	0.0454	0.0454	0.0519	0.0548
11	11	0.270	0.0589	0.0589	0.0673	0.0711	49	309	0.269	0.0383	0.0383	0.0438	0.0463
12	12	0.270	0.0609	0.0609	0.0697	0.0736	50	310	0.269	0.0335	0.0335	0.0384	0.0405
13	13	0.270	0.0604	0.0604	0.0691	0.0730	51	311	0.269	0.0277	0.0277	0.0317	0.0335
14	14	0.270	0.0635	0.0635	0.0727	0.0768	52	312	0.269	0.0163	0.0163	0.0186	0.0197
15	15	0.270	0.0611	0.0611	0.0699	0.0738	53	313	0.268	0.0090	0.0090	0.0103	0.0109
16	16	0.270	0.0626	0.0626	0.0716	0.0756	54	314	0.268	0.0018	0.0018	0.0021	0.0022
17	17	0.270	0.0642	0.0642	0.0735	0.0776	55	315	0.268	-0.0000	-0.0000	-0.0000	-0.0000
18	18	0.270	0.0652	0.0652	0.0746	0.0788	56	316	0.267	0.0009	0.0009	0.0010	0.0011
19	19	0.270	0.0662	0.0662	0.0758	0.0801	57	317	0.267	-0.0001	-0.0001	-0.0001	-0.0001
20	20	0.270	0.0685	0.0685	0.0783	0.0827	58	318	0.267	-0.0002	-0.0002	-0.0002	-0.0002
21	21	0.270	0.0727	0.0727	0.0832	0.0878	59	319	0.267	-0.0004	-0.0004	-0.0005	-0.0005
22	22	0.270	0.0750	0.0750	0.0858	0.0906	60	320	0.267	0.0005	0.0005	0.0005	0.0006
23	23	0.270	0.0766	0.0766	0.0877	0.0926	61	506	0.270	0.0524	0.0524	0.0599	0.0633
24	24	0.270	0.0806	0.0806	0.0922	0.0974	62	507	0.270	0.0500	0.0500	0.0572	0.0605
25	25	0.270	0.0827	0.0827	0.0947	0.1000	63	508	0.270	0.0472	0.0472	0.0540	0.0571
26	103	0.272	0.0702	0.0702	0.0803	0.0849	64	509	0.269	0.0378	0.0378	0.0432	0.0456
27	105	0.273	0.0690	0.0690	0.0790	0.0835	65	510	0.270	0.0335	0.0335	0.0383	0.0405
28	107	0.273	0.0668	0.0668	0.0765	0.0808	66	511	0.270	0.0299	0.0299	0.0342	0.0361
29	108	0.272	0.0595	0.0595	0.0681	0.0719	67	512	0.270	0.0199	0.0199	0.0227	0.0240
30	110	0.271	0.0434	0.0434	0.0497	0.0525	68	513	0.269	0.0124	0.0124	0.0141	0.0149
31	111	0.271	0.0355	0.0355	0.0406	0.0429	69	514	0.269	0.0037	0.0037	0.0043	0.0045
32	112	0.270	0.0227	0.0227	0.0259	0.0274	70	515	0.269	0.0005	0.0005	0.0006	0.0006
33	113	0.269	0.0123	0.0123	0.0141	0.0149	71	516	0.269	-0.0002	-0.0002	-0.0002	-0.0002
34	114	0.269	0.0030	0.0030	0.0034	0.0036	72	517	0.269	-0.0012	-0.0012	-0.0014	-0.0015
35	115	0.268	0.0006	0.0006	0.0007	0.0007	73	518	0.269	-0.0017	-0.0017	-0.0020	-0.0021
36	203	0.271	0.0610	0.0610	0.0698	0.0737	74	519	0.269	-0.0002	-0.0002	-0.0002	-0.0002
37	205	0.271	0.0612	0.0612	0.0700	0.0740	75	520	0.268	-0.0000	-0.0000	-0.0000	-0.0000
38	207	0.271	0.0583	0.0583	0.0667	0.0704							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.7072E 06	5.2035E 05 0.305	5.17	1099.6	0.11595E 07	0.3048	1.000	RUN NO.	15
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.2035E 05	5.2035E 05 1.000	75.96	1979.2	498.60	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	312.4	562.2	0.529	0.466	8.349	7.356	3.3344E-04	3.3223E-04	C.161
2	2	338.7	609.7	0.000	0.000	8.072	7.112	5.8236E-16	6.1646E-16	*******
3	3	312.6	562.6	0.519	0.457	8.347	7.355	3.2754E-04	3.4600E-04	0.155
4	4	312.5	562.5	0.525	0.463	8.347	7.355	3.3115E-04	3.4982E-04	0.143
5	5	312.5	562.6	0.520	0.458	8.347	7.355	3.2798E-04	3.4646E-04	0.139
6	6	312.4	562.3	0.518	0.457	8.349	7.356	3.2684E-04	3.4526E-04	0.129
7	7	312.3	562.2	0.515	0.454	8.349	7.357	3.2458E-04	3.4286E-04	0.119
8	8	312.3	562.2	0.512	0.451	8.349	7.357	3.2283E-04	3.4102E-04	0.130
9	9	312.2	561.9	0.504	0.444	8.351	7.358	3.1801E-04	3.3592E-04	0.117
10	10	312.0	561.7	0.507	0.447	8.352	7.360	3.1964E-04	3.3764E-04	0.122
11	11	312.0	561.6	0.492	0.433	8.353	7.360	3.0987E-04	3.2732E-04	0.112
12	12	311.9	561.5	0.509	0.448	8.353	7.360	3.2063E-04	3.3869E-04	0.117
13	13	312.0	561.7	0.504	0.444	8.352	7.359	3.1794E-04	3.3585E-04	0.115
14	14	312.0	561.7	0.531	0.468	8.352	7.359	3.3447E-04	3.5331E-04	0.119
15	15	311.9	561.4	0.510	0.450	8.354	7.361	3.2160E-04	3.3971E-04	0.134
16	16	311.9	561.4	0.523	0.461	8.354	7.361	3.2941E-04	3.4796E-04	0.155
17	17	311.9	561.4	0.536	0.473	8.354	7.361	3.3805E-04	3.5709E-04	0.150
18	18	312.0	561.6	0.545	0.480	8.353	7.360	3.4323E-04	3.6256E-04	0.153
19	19	312.1	561.7	0.553	0.487	8.352	7.359	3.4875E-04	3.6839E-04	0.166
20	20	312.0	561.6	0.572	0.504	8.353	7.360	3.6042E-04	3.8072E-04	0.179
21	21	312.2	561.9	0.607	0.535	8.351	7.358	3.8265E-04	4.0421E-04	0.198
22	22	312.1	561.7	0.626	0.552	8.352	7.359	3.9475E-04	4.1698E-04	0.210
23	23	312.0	561.6	0.640	0.564	8.353	7.360	4.0339E-04	4.2610E-04	0.215
24	24	312.1	561.7	0.673	0.593	8.352	7.359	4.2427E-04	4.4817E-04	0.218
25	25	311.6	561.0	0.691	0.609	8.356	7.363	4.3563E-04	4.6015E-04	0.224
26	103	314.4	565.9	0.584	0.515	8.327	7.338	3.6962E-04	3.9051E-04	0.194
27	105	315.1	567.2	0.574	0.506	8.320	7.331	3.6353E-04	3.8409E-04	0.189
28	107	314.7	566.4	0.556	0.490	8.325	7.335	3.5200E-04	3.7190E-04	0.175
29	108	313.9	565.1	0.495	0.437	8.332	7.342	3.1312E-04	3.3080E-04	0.086
30	110	313.0	563.3	0.362	0.319	8.343	7.351	2.2852E-04	2.4140E-04	0.080
31	111	312.5	562.5	0.296	0.261	8.347	7.355	1.8682E-04	1.9735E-04	C.202
32	112	311.7	561.0	0.189	0.167	8.356	7.363	1.1927E-04	1.2598E-04	0.474
33	113	311.1	559.9	0.103	0.091	8.363	7.368	6.4910E-05	6.8560E-05	0.633
34	114	310.1	558.1	0.025	0.022	8.373	7.378	1.5589E-05	1.6465E-05	0.639
35	115	309.2	556.6	0.005	0.004	8.382	7.385	3.0874E-06	3.2606E-06	-C.083
36	203	312.6	562.6	0.509	0.449	8.347	7.354	3.2113E-04	3.3923E-04	0.134
37	205	313.0	563.4	0.510	0.450	8.342	7.351	3.2213E-04	3.4029E-04	0.146
38	207	312.8	563.0	0.486	0.428	8.345	7.353	3.0681E-04	3.2411E-04	0.130
39	208	312.3	562.2	0.442	0.390	8.349	7.357	2.7903E-04	2.9475E-04	C.053
40	210	311.7	561.0	0.342	0.301	8.356	7.363	2.1553E-04	2.2766E-04	-C.C05
41	211	310.1	558.2	0.287	0.253	8.372	7.377	1.8035E-04	1.9048E-04	0.139
42	212	312.3	562.2	0.171	0.150	8.349	7.357	1.0760E-04	1.1366E-04	0.646
43	213	309.4	556.9	0.120	0.105	8.380	7.384	7.5203E-05	7.9422E-05	C.651
44	214	308.7	555.7	0.029	0.026	8.387	7.390	1.8468E-05	1.9503E-05	1.057
45	215	308.2	554.7	0.007	0.006	8.393	7.396	4.4264E-06	4.6743E-06	1.579
46	306	311.8	561.3	0.432	0.380	8.354	7.361	2.7202E-04	2.8733E-04	0.095
47	307	311.6	560.9	0.422	0.372	8.357	7.363	2.6575E-04	2.8071E-04	C.061
48	308	311.4	560.5	0.379	0.334	8.359	7.365	2.3893E-04	2.5238E-04	-C.033
49	309	311.1	560.0	0.320	0.282	8.362	7.368	2.0159E-04	2.1292E-04	-0.100
50	310	310.9	559.6	0.280	0.247	8.364	7.370	1.7651E-04	1.8644E-04	-0.057
51	311	310.6	559.0	0.232	0.204	8.368	7.373	1.4587E-04	1.5407E-04	0.213
52	312	310.1	558.2	0.136	0.120	8.372	7.377	8.5701E-05	9.0515E-05	0.443
53	313	309.5	557.0	0.076	0.067	8.379	7.383	4.7556E-05	5.0225E-05	0.741
54	314	309.5	557.0	0.015	0.014	8.379	7.383	9.7075E-06	1.0252E-05	1.237
55	315	309.2	556.5	-0.000	-0.000	8.382	7.386	-5.0219E-08	-5.3035E-08	*******
56	316	308.6	555.4	0.008	0.007	8.389	7.392	4.8243E-06	5.0946E-06	1.739
57	317	308.5	555.4	-0.001	-0.001	8.389	7.392	-4.0292E-07	-4.2550E-07	-11.184
58	318	308.4	555.1	-0.001	-0.001	8.391	7.393	-8.5550E-07	-9.0343E-07	-5.384
59	319	308.2	554.8	-0.003	-0.003	8.392	7.395	-2.1593E-06	-2.2802E-06	-2.572
60	320	308.3	554.9	0.004	0.004	8.392	7.395	2.5123E-06	2.6530E-06	5.286
61	506	312.1	561.8	0.437	0.385	8.352	7.359	2.7581E-04	2.9134E-04	0.122
62	507	311.8	561.2	0.418	0.368	8.355	7.362	2.6334E-04	2.7816E-04	C.098
63	508	311.3	560.3	0.395	0.348	8.360	7.367	2.4868E-04	2.6266E-04	0.086
64	509	310.4	558.8	0.316	0.279	8.369	7.374	1.9886E-04	2.1003E-04	0.012
65	510	311.4	560.5	0.280	0.247	8.359	7.366	1.7633E-04	1.8625E-04	-0.039
66	511	311.3	560.3	0.250	0.220	8.360	7.366	1.5733E-04	1.6618E-04	C.C09
67	512	311.2	560.2	0.166	0.146	8.361	7.367	1.0461E-04	1.1049E-04	C.309
68	513	311.1	560.0	0.103	0.091	8.362	7.368	6.5064E-05	6.8723E-05	0.585
69	514	310.8	559.5	0.031	0.028	8.365	7.371	1.9734E-05	2.0843E-05	0.991
70	515	310.4	558.7	0.004	0.004	8.370	7.375	2.6388E-06	2.7871E-06	2.282
71	516	310.5	558.9	-0.002	-0.001	8.369	7.374	-9.9704E-07	-1.0531E-06	-2.016
72	517	310.3	558.6	-0.010	-0.009	8.371	7.376	-6.5251E-06	-6.8917E-06	0.742
73	518	310.2	558.4	-0.015	-0.013	8.371	7.376	-9.1647E-06	-9.6795E-06	0.672
74	519	310.1	558.1	-0.001	-0.001	8.373	7.378	-8.4756E-07	-8.9515E-07	-3.612
75	520	310.0	557.9	-0.000	-0.000	8.374	7.379	-4.9280E-08	-5.2047E-08	*******

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3664E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.687	3.722	3.497
PT2/PT1	4.8542-02	4.9C1E-02	4.604E-02
TEMP(DEG R)	1955.8	610.2	2055.8
TT2/TT1	0.9881	0.3083	1.0387

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

3.5 FT. HT DATA TEST NO. 182 RUN NO. 16 FRAME 26 TC 52 CONSTANT SET 312

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2011E 07	305.55	2026.93	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	305.005	2026.666	0.281	0.282	610.200	-0.299	17.6074
0.070	305.005	2026.797	0.278	0.293	610.200	-0.286	17.6195
0.140	305.005	2027.056	0.276	0.355	610.200	-0.273	17.6155
0.210	305.554	2026.797	0.276	0.738	610.200	-0.260	17.6074
0.280	305.005	2026.927	0.299	2.659	610.200	-0.273	17.6074
0.350	305.005	2026.537	0.697	6.252	610.200	-0.299	17.6115
0.420	305.005	2026.927	3.640	9.222	610.200	-0.286	17.6155
0.490	305.554	2027.187	8.658	12.279	610.200	-0.299	17.6115
0.560	305.737	2026.666	12.333	14.482	610.200	-0.273	17.6074
0.630	305.005	2026.927	14.404	15.383	610.200	-0.299	17.6115
0.700	305.005	2026.538	15.524	15.436	610.200	-0.299	17.6074
0.770	305.005	2027.057	15.853	15.206	610.200	-0.299	34.9163
0.840	305.005	2027.057	15.766	15.011	610.200	-0.260	34.8961
0.910	305.554	2026.927	15.576	15.030	610.200	-0.299	34.9243
0.980	305.005	2026.538	15.455	15.237	610.200	-0.286	34.9082
1.050	305.005	2026.666	15.405	15.486	610.200	-0.312	34.9163
1.120	305.005	2027.317	15.426	15.662	610.200	-0.312	34.9324
1.190	305.005	2027.576	15.432	15.754	610.200	-0.286	34.9243
1.260	305.554	2026.925	15.432	15.827	610.200	-0.286	34.9324
1.330	305.005	2027.057	15.432	15.905	610.200	-0.286	34.9324
1.400	305.005	2026.535	15.432	15.964	610.200	-0.312	34.9365
1.470	305.005	2027.316	15.453	16.017	610.200	-0.312	34.9365
1.540	305.005	2027.186	15.458	16.006	610.200	-0.286	34.9284
1.610	305.554	2026.924	15.458	16.017	610.200	-0.299	34.9324
1.680	305.005	2026.536	15.437	16.026	610.200	-0.299	34.9284
1.750	305.005	2026.666	15.445	16.040	610.200	-0.299	34.9365
1.820	305.005	2026.794	15.453	16.054	610.200	-0.312	34.9324

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5975E 06	2.0109E 06	0.305	20.79	1126.1	0.11901E 07	0.3048	1.000	RUN NO. 16
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0109E 06	2.0109E 06	1.000	305.55	2026.9	511.78	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.268	0.2978	0.2978	0.3406	0.3597	39	208	0.273	0.0595	0.0595	0.0681	0.0720
2	2	0.286	0.0000	0.0000	0.0000	0.0000	40	210	0.271	0.0636	0.0636	0.0728	0.0769
3	3	0.269	0.3005	0.3005	0.3438	0.3631	41	211	0.267	0.0585	0.0585	0.0669	0.0706
4	4	0.269	0.3090	0.3090	0.3535	0.3734	42	212	0.269	0.0489	0.0489	0.0560	0.0591
5	5	0.269	0.3116	0.3116	0.3565	0.3765	43	213	0.265	0.0344	0.0344	0.0393	0.0415
6	6	0.269	0.3168	0.3168	0.3624	0.3828	44	214	0.264	0.0119	0.0119	0.0136	0.0143
7	7	0.269	0.3319	0.3319	0.3797	0.4010	45	215	0.263	0.0018	0.0018	0.0020	0.0021
8	8	0.270	0.3383	0.3383	0.3871	0.4089	46	306	0.269	0.2246	0.2246	0.2570	0.2714
9	9	0.270	0.3499	0.3499	0.4004	0.4229	47	307	0.269	0.2440	0.2440	0.2792	0.2949
10	10	0.270	0.3584	0.3584	0.4101	0.4331	48	308	0.268	0.2510	0.2510	0.2871	0.3033
11	11	0.270	0.3490	0.3490	0.3993	0.4218	49	309	0.268	0.2368	0.2368	0.2708	0.2860
12	12	0.270	0.3402	0.3402	0.3893	0.4113	50	310	0.267	0.2246	0.2246	0.2569	0.2713
13	13	0.271	0.2931	0.2931	0.3354	0.3543	51	311	0.266	0.1931	0.1931	0.2208	0.2332
14	14	0.271	0.2386	0.2386	0.2731	0.2885	52	312	0.265	0.1467	0.1467	0.1677	0.1770
15	15	0.271	0.1572	0.1572	0.1799	0.1901	53	313	0.264	0.1083	0.1083	0.1238	0.1307
16	16	0.272	0.1117	0.1117	0.1278	0.1350	54	314	0.263	0.0491	0.0491	0.0561	0.0592
17	17	0.272	0.0883	0.0883	0.1011	0.1068	55	315	0.262	0.0160	0.0160	0.0183	0.0193
18	18	0.272	0.0721	0.0721	0.0825	0.0871	56	406	0.268	0.2947	0.2947	0.3371	0.3560
19	19	0.272	0.0614	0.0614	0.0703	0.0743	57	407	0.267	0.2954	0.2954	0.3378	0.3567
20	20	0.272	0.0599	0.0599	0.0685	0.0724	58	408	0.267	0.2782	0.2782	0.3181	0.3359
21	21	0.273	0.0600	0.0600	0.0687	0.0726	59	409	0.266	0.2618	0.2618	0.2994	0.3161
22	22	0.272	0.0605	0.0605	0.0693	0.0732	60	410	0.266	0.2354	0.2354	0.2691	0.2842
23	23	0.272	0.0629	0.0629	0.0721	0.0761	61	411	0.265	0.2096	0.2096	0.2396	0.2530
24	24	0.272	0.0668	0.0668	0.0765	0.0808	62	412	0.264	0.1521	0.1521	0.1739	0.1836
25	25	0.271	0.0656	0.0656	0.0751	0.0793	63	413	0.264	0.1061	0.1061	0.1212	0.1280
26	103	0.277	0.0541	0.0541	0.0620	0.0656	64	414	0.262	0.0421	0.0421	0.0481	0.0508
27	105	0.278	0.0525	0.0525	0.0602	0.0637	65	415	0.262	0.0234	0.0234	0.0267	0.0282
28	107	0.277	0.0491	0.0491	0.0563	0.0595	66	506	0.267	0.2657	0.2657	0.3039	0.3209
29	108	0.276	0.0442	0.0442	0.0507	0.0536	67	507	0.267	0.2635	0.2635	0.3013	0.3182
30	110	0.274	0.0364	0.0364	0.0417	0.0440	68	508	0.267	0.2601	0.2601	0.2974	0.3140
31	111	0.273	0.0314	0.0314	0.0359	0.0380	69	509	0.267	0.2373	0.2373	0.2713	0.2865
32	112	0.271	0.0208	0.0208	0.0238	0.0251	70	510	0.266	0.2192	0.2192	0.2506	0.2646
33	113	0.270	0.0147	0.0147	0.0169	0.0178	71	511	0.266	0.2046	0.2046	0.2339	0.2470
34	114	0.268	0.0039	0.0039	0.0044	0.0047	72	512	0.266	0.1640	0.1640	0.1874	0.1979
35	115	0.266	0.0002	0.0002	0.0003	0.0003	73	513	0.265	0.1216	0.1216	0.1390	0.1468
36	203	0.273	0.0520	0.0520	0.0596	0.0630	74	514	0.263	0.0552	0.0552	0.0631	0.0666
37	205	0.274	0.0490	0.0490	0.0561	0.0593	75	515	0.262	0.0067	0.0067	0.0076	0.0080
38	207	0.274	0.0500	0.0500	0.0572	0.0605							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5975E 06	2.0109E 06 0.305	20.79	1126.1	0.11901E 07	0.3048	1.000	RUN NO. 16
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0109E 06	2.0109E 06 1.000	305.55	2026.9	511.78	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	317.7	571.8	5.133	4.522	17.237	15.188	7.9491E-04	8.3952E-04	0.372
2	2	338.7	609.6	0.000	0.000	16.793	14.797	1.2331E-16	1.3044E-16	*******
3	3	318.8	573.8	5.173	4.559	17.214	15.168	8.0238E-04	8.4747E-04	0.383
4	4	318.8	573.9	5.319	4.687	17.213	15.167	8.2505E-04	8.7142E-04	0.384
5	5	319.1	574.4	5.361	4.724	17.206	15.161	8.3194E-04	8.7872E-04	0.378
6	6	318.9	574.0	5.452	4.804	17.212	15.166	8.4574E-04	8.9328E-04	0.383
7	7	319.1	574.4	5.711	5.032	17.207	15.161	8.8612E-04	9.3594E-04	0.389
8	8	319.6	575.3	5.818	5.126	17.196	15.152	9.0332E-04	9.5415E-04	0.399
9	9	319.5	575.2	6.018	5.302	17.198	15.153	9.3430E-04	9.8686E-04	0.405
10	10	319.7	575.4	6.163	5.430	17.195	15.151	9.5697E-04	1.0108E-03	0.408
11	11	320.0	575.9	5.999	5.286	17.189	15.146	9.3192E-04	9.8438E-04	0.403
12	12	320.3	576.6	5.846	5.151	17.181	15.139	9.0852E-04	9.5969E-04	0.390
13	13	321.0	577.9	5.031	4.433	17.166	15.126	7.8264E-04	8.2676E-04	0.367
14	14	321.4	578.6	4.094	3.607	17.158	15.118	6.3719E-04	6.7313E-04	0.320
15	15	321.3	578.3	2.698	2.377	17.160	15.121	4.1985E-04	4.4353E-04	0.274
16	16	321.7	579.1	1.915	1.687	17.151	15.112	2.9820E-04	3.1503E-04	0.246
17	17	322.1	579.7	1.514	1.334	17.144	15.106	2.3580E-04	2.4912E-04	0.221
18	18	322.8	581.1	1.234	1.087	17.128	15.092	1.9244E-04	2.0332E-04	0.180
19	19	322.7	580.9	1.052	0.927	17.130	15.094	1.6405E-04	1.7333E-04	0.135
20	20	322.6	580.7	1.026	0.904	17.132	15.096	1.5987E-04	1.6890E-04	0.134
21	21	323.5	582.3	1.026	0.904	17.113	15.079	1.6020E-04	1.6926E-04	0.115
22	22	322.8	581.0	1.037	0.914	17.130	15.094	1.6168E-04	1.7082E-04	0.106
23	23	322.4	580.3	1.079	0.951	17.138	15.101	1.6812E-04	1.7761E-04	0.116
24	24	322.3	580.2	1.146	1.010	17.139	15.102	1.7853E-04	1.8862E-04	0.124
25	25	320.9	577.5	1.126	0.992	17.170	15.129	1.7517E-04	1.8504E-04	0.099
26	103	328.2	590.8	0.921	0.812	17.015	14.992	1.4470E-04	1.5294E-04	0.055
27	105	329.9	593.8	0.892	0.786	16.979	14.960	1.4044E-04	1.4846E-04	0.058
28	107	328.7	591.7	0.835	0.735	17.003	14.982	1.3119E-04	1.3866E-04	0.018
29	108	326.8	588.2	0.754	0.664	17.045	15.019	1.1821E-04	1.2493E-04	-0.143
30	110	324.5	584.1	0.622	0.548	17.093	15.061	9.7229E-05	1.0274E-04	-0.142
31	111	323.4	582.2	0.537	0.473	17.115	15.081	8.3836E-05	8.8578E-05	-0.026
32	112	321.4	578.4	0.357	0.314	17.159	15.120	5.5541E-05	5.8674E-05	0.219
33	113	320.0	576.0	0.253	0.223	17.188	15.145	3.9323E-05	4.1537E-05	0.506
34	114	317.5	571.4	0.066	0.059	17.242	15.192	1.0284E-05	1.0860E-05	0.792
35	115	314.8	566.6	0.004	0.004	17.298	15.242	6.3922E-07	6.7494E-07	2.180
36	203	323.9	583.0	0.890	0.784	17.106	15.073	1.3900E-04	1.4687E-04	0.033
37	205	324.8	584.7	0.837	0.738	17.086	15.055	1.3092E-04	1.3834E-04	0.004
38	207	324.4	583.8	0.854	0.753	17.096	15.064	1.3349E-04	1.4105E-04	0.036
39	208	323.1	581.6	1.019	0.898	17.122	15.087	1.5898E-04	1.6797E-04	-0.040
40	210	321.2	578.1	1.092	0.962	17.163	15.123	1.6990E-04	1.7948E-04	-0.091
41	211	316.7	570.1	1.009	0.889	17.258	15.206	1.5605E-04	1.6479E-04	0.007
42	212	318.5	573.2	0.843	0.742	17.221	15.174	1.3064E-04	1.3797E-04	0.377
43	213	314.6	566.3	0.595	0.524	17.302	15.246	9.1816E-05	9.6947E-05	0.360
44	214	312.4	562.3	0.206	0.181	17.349	15.286	3.1678E-05	3.3442E-05	0.664
45	215	311.1	560.0	0.031	0.027	17.376	15.311	4.7403E-06	5.0039E-06	1.457
46	306	319.3	574.8	3.864	3.404	17.203	15.158	5.9967E-04	6.3340E-04	0.297
47	307	319.2	574.6	4.198	3.699	17.205	15.160	6.5147E-04	6.8811E-04	0.298
48	308	318.2	572.7	4.324	3.810	17.227	15.179	6.7015E-04	7.0778E-04	0.279
49	309	317.4	571.3	4.083	3.598	17.243	15.194	6.3216E-04	6.6762E-04	0.239
50	310	316.7	570.0	3.877	3.416	17.258	15.207	5.9959E-04	6.3319E-04	0.229
51	311	315.5	567.9	3.338	2.941	17.284	15.229	5.1549E-04	5.4433E-04	0.258
52	312	314.4	566.0	2.538	2.237	17.305	15.248	3.9146E-04	4.1332E-04	0.356
53	313	312.9	563.2	1.879	1.655	17.339	15.278	2.8910E-04	3.0522E-04	0.441
54	314	312.2	562.0	0.851	0.750	17.353	15.290	1.3088E-04	1.3817E-04	0.491
55	315	311.0	559.8	0.279	0.246	17.379	15.313	4.2785E-05	4.5164E-05	0.667
56	406	317.5	571.5	5.081	4.477	17.241	15.191	7.8676E-04	8.3090E-04	0.343
57	407	316.6	570.0	5.098	4.492	17.259	15.208	7.8849E-04	8.3267E-04	0.338
58	408	316.1	569.0	4.804	4.233	17.270	15.218	7.4245E-04	7.8402E-04	0.302
59	409	315.6	568.0	4.525	3.987	17.282	15.228	6.9883E-04	7.3793E-04	0.281
60	410	315.2	567.4	4.070	3.586	17.289	15.234	6.2824E-04	6.6337E-04	0.286
61	411	314.5	566.1	3.628	3.196	17.305	15.248	5.5946E-04	5.9071E-04	0.298
62	412	313.2	563.8	2.636	2.323	17.332	15.271	4.0593E-04	4.2857E-04	0.401
63	413	312.3	562.2	1.841	1.622	17.351	15.288	2.8311E-04	2.9888E-04	0.491
64	414	310.6	559.1	0.732	0.645	17.387	15.320	1.1232E-04	1.1856E-04	0.552
65	415	310.3	558.5	0.407	0.359	17.394	15.327	6.2433E-05	6.5901E-05	0.587
66	506	316.7	570.0	4.586	4.041	17.258	15.207	7.0934E-04	7.4908E-04	0.322
67	507	316.7	570.1	4.547	4.007	17.257	15.206	7.0338E-04	7.4280E-04	0.314
68	508	316.2	569.1	4.491	3.957	17.269	15.217	6.9420E-04	7.3307E-04	0.289
69	509	315.9	568.6	4.099	3.612	17.274	15.221	6.3333E-04	6.6878E-04	0.252
70	510	315.4	567.6	3.788	3.338	17.286	15.231	5.8495E-04	6.1767E-04	0.251
71	511	315.8	568.4	3.535	3.115	17.278	15.224	5.4612E-04	5.7669E-04	0.249
72	512	314.7	566.5	2.836	2.499	17.300	15.244	4.3757E-04	4.6203E-04	0.328
73	513	313.8	564.8	2.106	1.856	17.319	15.261	3.2453E-04	3.4264E-04	0.405
74	514	312.2	562.0	0.958	0.845	17.352	15.290	1.4739E-04	1.5559E-04	0.459
75	515	310.9	559.6	0.116	0.102	17.381	15.315	1.7781E-05	1.8769E-05	0.597

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3996E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.701	15.493	16.054
PT2/PT1	5.466E-02	5.057E-02	5.254E-02
TEMP(DEG R)	2010.9	610.2	2150.1
TT2/TT1	0.9921	0.3010	1.0607

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 17 FRAME 26 TO 51 CONSTANT SET 311

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1038E 07	155.74	2011.94	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	155.554	2011.685	0.162	0.179	610.200	-0.305	17.5935
0.070	155.554	2011.814	0.159	0.179	610.200	-0.292	17.6097
0.140	155.554	2012.205	0.159	0.212	610.200	-0.292	17.6137
0.210	155.554	2011.813	0.162	0.483	610.200	-0.279	17.6097
0.280	155.554	2011.684	0.170	1.518	610.200	-0.292	17.6056
0.350	155.371	2011.423	0.442	3.224	610.200	-0.292	17.5976
0.420	155.371	2011.685	1.865	4.622	610.200	-0.305	17.6016
0.490	155.554	2012.336	4.276	6.124	610.200	-0.292	17.6137
0.560	155.554	2012.076	6.101	7.307	610.200	-0.292	17.6097
0.630	155.554	2011.553	7.083	7.866	610.200	-0.292	17.6056
0.700	155.554	2011.163	7.728	7.961	610.200	-0.292	17.6097
0.770	155.554	2011.163	8.055	7.849	610.200	-0.305	30.4186
0.840	155.737	2011.815	8.153	7.637	610.200	-0.305	34.9168
0.910	155.737	2011.945	8.116	7.516	610.200	-0.305	34.9249
0.980	155.554	2011.291	8.063	7.514	610.200	-0.292	34.9249
1.050	155.554	2011.293	8.029	7.628	610.200	-0.292	34.9249
1.120	155.554	2011.293	8.021	7.762	610.200	-0.305	34.9329
1.190	155.737	2011.553	8.024	7.838	610.200	-0.305	34.9329
1.260	155.737	2011.553	8.024	7.888	610.200	-0.279	34.9289
1.330	155.737	2011.161	8.010	7.930	610.200	-0.292	34.9249
1.400	155.554	2010.640	8.010	7.978	610.200	-0.305	34.9249
1.470	155.737	2010.770	8.010	8.025	610.200	-0.305	34.9329
1.540	155.554	2011.683	8.010	8.042	610.200	-0.292	34.9329
1.610	155.920	2011.422	8.010	8.070	610.200	-0.292	34.9329
1.680	155.920	2011.031	8.008	8.078	610.200	-0.279	34.9249
1.750	155.737	2010.639	8.002	8.090	610.200	-0.305	34.9249

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.4050E 06	1.0378E 06	0.305	10.59	1117.7	0.11805E 07	0.3048	1.000	RUN NO.	17
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0378E 06	1.0378E 06	1.000	155.74	2011.9	507.63	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.260	0.2845	0.2845	0.3248	0.3428	39	208	0.262	0.0450	0.0450	0.0514	0.0543
2	2	0.288	0.0000	0.0000	0.0000	0.0000	40	210	0.261	0.0363	0.0363	0.0414	0.0437
3	3	0.260	0.2839	0.2839	0.3242	0.3422	41	211	0.259	0.0337	0.0337	0.0385	0.0406
4	4	0.260	0.2844	0.2844	0.3247	0.3427	42	212	0.261	0.0229	0.0229	0.0262	0.0277
5	5	0.260	0.2767	0.2767	0.3160	0.3335	43	213	0.258	0.0155	0.0155	0.0177	0.0187
6	6	0.260	0.2707	0.2707	0.3091	0.3262	44	214	0.257	0.0026	0.0026	0.0030	0.0032
7	7	0.260	0.2518	0.2518	0.2875	0.3035	45	215	0.256	-0.0023	-0.0023	-0.0027	-0.0028
8	8	0.261	0.2145	0.2145	0.2449	0.2585	46	306	0.261	0.0363	0.0363	0.0415	0.0438
9	9	0.261	0.1744	0.1744	0.1992	0.2102	47	307	0.261	0.0370	0.0370	0.0422	0.0445
10	10	0.261	0.1356	0.1356	0.1548	0.1634	48	308	0.260	0.0490	0.0490	0.0560	0.0591
11	11	0.261	0.1034	0.1034	0.1181	0.1246	49	309	0.260	0.0510	0.0510	0.0583	0.0615
12	12	0.261	0.0861	0.0861	0.0984	0.1038	50	310	0.259	0.0475	0.0475	0.0542	0.0572
13	13	0.261	0.0677	0.0677	0.0773	0.0816	51	311	0.259	0.0328	0.0328	0.0374	0.0395
14	14	0.261	0.0636	0.0636	0.0726	0.0767	52	312	0.258	0.0132	0.0132	0.0151	0.0159
15	15	0.261	0.0572	0.0572	0.0653	0.0689	53	313	0.257	0.0238	0.0238	0.0271	0.0286
16	16	0.262	0.0557	0.0557	0.0636	0.0672	54	314	0.257	0.0067	0.0067	0.0077	0.0081
17	17	0.262	0.0575	0.0575	0.0657	0.0693	55	315	0.257	0.0003	0.0003	0.0003	0.0003
18	18	0.262	0.0590	0.0590	0.0674	0.0711	56	406	0.260	0.1684	0.1684	0.1923	0.2029
19	19	0.262	0.0600	0.0600	0.0686	0.0724	57	407	0.259	0.1803	0.1803	0.2059	0.2173
20	20	0.262	0.0613	0.0613	0.0700	0.0739	58	408	0.259	0.1785	0.1785	0.2038	0.2150
21	21	0.263	0.0623	0.0623	0.0711	0.0751	59	409	0.259	0.1674	0.1674	0.1911	0.2017
22	22	0.262	0.0640	0.0640	0.0732	0.0772	60	410	0.259	0.1465	0.1465	0.1673	0.1765
23	23	0.262	0.0659	0.0659	0.0753	0.0795	61	411	0.258	0.1283	0.1283	0.1465	0.1546
24	24	0.262	0.0705	0.0705	0.0805	0.0850	62	412	0.258	0.0806	0.0806	0.0920	0.0971
25	25	0.262	0.0723	0.0723	0.0826	0.0872	63	413	0.257	0.0434	0.0434	0.0495	0.0522
26	103	0.266	0.0614	0.0614	0.0701	0.0741	64	414	0.256	-0.0021	-0.0021	-0.0024	-0.0025
27	105	0.267	0.0598	0.0598	0.0684	0.0722	65	415	0.256	0.0037	0.0037	0.0042	0.0044
28	107	0.266	0.0568	0.0568	0.0650	0.0686	66	506	0.259	0.2344	0.2344	0.2676	0.2824
29	108	0.265	0.0503	0.0503	0.0575	0.0607	67	507	0.259	0.2360	0.2360	0.2695	0.2844
30	110	0.264	0.0380	0.0380	0.0434	0.0458	68	508	0.259	0.2341	0.2341	0.2673	0.2820
31	111	0.263	0.0317	0.0317	0.0362	0.0383	69	509	0.259	0.2133	0.2133	0.2436	0.2570
32	112	0.262	0.0199	0.0199	0.0228	0.0240	70	510	0.258	0.1959	0.1959	0.2237	0.2360
33	113	0.261	0.0108	0.0108	0.0123	0.0130	71	511	0.259	0.1831	0.1831	0.2091	0.2206
34	114	0.260	0.0015	0.0015	0.0017	0.0018	72	512	0.258	0.1367	0.1367	0.1561	0.1647
35	115	0.258	-0.0007	-0.0007	-0.0008	-0.0008	73	513	0.258	0.0946	0.0946	0.1080	0.1139
36	203	0.264	0.0541	0.0541	0.0618	0.0652	74	514	0.257	0.0290	0.0290	0.0331	0.0349
37	205	0.263	0.0528	0.0528	0.0604	0.0637	75	515	0.256	-0.0033	-0.0033	-0.0038	-0.0040
38	207	0.263	0.0487	0.0487	0.0556	0.0587							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.4050E 06	1.0378E 06	0.305	10.59	1117.7	0.11805E 07	0.3048	1.000	RUN NO.	17
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0378E 06	1.0378E 06	1.000	155.74	2011.9	507.63	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	305.1	549.2	3.516	3.098	12.361	10.891	1.0571E-03	1.1156E-03	0.411
2	2	338.7	609.7	0.000	0.000	11.853	10.444	7.4760E-16	7.9099E-16	*******
3	3	305.6	550.1	3.507	3.090	12.353	10.884	1.0551E-03	1.1135E-03	0.425
4	4	305.6	550.2	3.513	3.095	12.352	10.884	1.0568E-03	1.1153E-03	0.422
5	5	305.8	550.5	3.417	3.011	12.349	10.881	1.0284E-03	1.0854E-03	0.416
6	6	305.7	550.3	3.343	2.946	12.351	10.883	1.0060E-03	1.0617E-03	0.417
7	7	305.9	550.6	3.109	2.740	12.349	10.881	9.3572E-04	9.8756E-04	0.409
8	8	306.2	551.2	2.647	2.333	12.344	10.877	7.9710E-04	8.4127E-04	0.391
9	9	306.2	551.2	2.152	1.897	12.344	10.877	6.4807E-04	6.8398E-04	0.352
10	10	306.2	551.2	1.673	1.474	12.343	10.876	5.0379E-04	5.3172E-04	0.304
11	11	306.4	551.5	1.276	1.124	12.341	10.874	3.8430E-04	4.0560E-04	0.256
12	12	306.6	551.9	1.063	0.937	12.338	10.872	3.2018E-04	3.3793E-04	0.207
13	13	307.1	552.7	0.835	0.736	12.331	10.865	2.5164E-04	2.6560E-04	0.135
14	14	307.2	553.0	0.784	0.691	12.328	10.863	2.3638E-04	2.4950E-04	0.098
15	15	307.3	553.1	0.705	0.621	12.328	10.862	2.1250E-04	2.2429E-04	0.102
16	16	307.5	553.4	0.687	0.605	12.325	10.860	2.0708E-04	2.1858E-04	0.104
17	17	307.7	553.8	0.709	0.624	12.321	10.857	2.1377E-04	2.2564E-04	0.104
18	18	308.1	554.7	0.726	0.640	12.315	10.851	2.1917E-04	2.3135E-04	0.120
19	19	308.3	554.9	0.739	0.651	12.313	10.849	2.2312E-04	2.3552E-04	0.139
20	20	308.4	555.1	0.755	0.665	12.311	10.848	2.2782E-04	2.4049E-04	0.144
21	21	308.8	555.9	0.766	0.675	12.304	10.841	2.3143E-04	2.4430E-04	0.135
22	22	308.5	555.3	0.788	0.695	12.309	10.846	2.3809E-04	2.5132E-04	0.145
23	23	308.3	555.0	0.812	0.715	12.312	10.848	2.4508E-04	2.5870E-04	0.156
24	24	308.4	555.1	0.868	0.765	12.311	10.848	2.6206E-04	2.7663E-04	0.175
25	25	307.4	553.4	0.891	0.785	12.326	10.860	2.6868E-04	2.8359E-04	0.180
26	103	312.2	561.9	0.752	0.663	12.254	10.797	2.2817E-04	2.4092E-04	0.147
27	105	313.3	564.0	0.731	0.644	12.236	10.782	2.2230E-04	2.3475E-04	0.141
28	107	312.7	562.8	0.696	0.613	12.246	10.791	2.1137E-04	2.2319E-04	0.119
29	108	311.4	560.6	0.617	0.544	12.265	10.807	1.8711E-04	1.9756E-04	-0.007
30	110	309.9	557.9	0.466	0.411	12.288	10.827	1.4111E-04	1.4897E-04	-0.050
31	111	309.2	556.6	0.390	0.344	12.298	10.836	1.1791E-04	1.2448E-04	0.064
32	112	307.9	554.2	0.246	0.216	12.318	10.854	7.4114E-05	7.8231E-05	0.300
33	113	307.0	552.7	0.133	0.117	12.331	10.866	4.0018E-05	4.2238E-05	0.529
34	114	305.3	549.5	0.018	0.016	12.358	10.889	5.5227E-06	5.8284E-06	0.541
35	115	303.6	546.5	-0.008	-0.007	12.383	10.911	-2.4834E-06	-2.6205E-06	0.992
36	203	308.9	556.1	0.665	0.586	12.303	10.840	2.0107E-04	2.1225E-04	0.063
37	205	309.6	557.3	0.650	0.572	12.293	10.831	1.9645E-04	2.0738E-04	0.059
38	207	309.3	556.7	0.598	0.527	12.297	10.836	1.8092E-04	1.9099E-04	0.039
39	208	308.5	555.4	0.554	0.488	12.309	10.846	1.6734E-04	1.7665E-04	-0.102
40	210	307.3	553.2	0.447	0.394	12.327	10.861	1.3480E-04	1.4228E-04	-0.258
41	211	304.8	548.6	0.416	0.367	12.366	10.896	1.2516E-04	1.3208E-04	-0.027
42	212	306.8	552.2	0.283	0.249	12.336	10.869	8.5267E-05	8.9996E-05	0.539
43	213	303.6	546.5	0.192	0.169	12.383	10.911	5.7577E-05	6.0756E-05	0.488
44	214	302.4	544.4	0.032	0.029	12.401	10.927	9.7342E-06	1.0271E-05	0.888
45	215	301.5	542.6	-0.029	-0.026	12.416	10.940	-8.7062E-06	-9.1856E-06	0.584
46	306	306.5	551.8	0.448	0.395	12.339	10.872	1.3491E-04	1.4239E-04	-0.222
47	307	306.3	551.4	0.456	0.402	12.342	10.875	1.3736E-04	1.4497E-04	-0.335
48	308	305.8	550.4	0.605	0.533	12.351	10.883	1.8209E-04	1.9218E-04	-0.259
49	309	305.3	549.5	0.631	0.556	12.358	10.889	1.8966E-04	2.0016E-04	-0.279
50	310	304.9	548.8	0.587	0.517	12.364	10.894	1.7641E-04	1.8617E-04	-0.261
51	311	304.1	547.4	0.405	0.357	12.375	10.904	1.2173E-04	1.2846E-04	-0.272
52	312	303.5	546.3	0.163	0.144	12.385	10.912	4.8992E-05	5.1698E-05	-0.583
53	313	302.5	544.5	0.295	0.260	12.400	10.926	8.8244E-05	9.3110E-05	0.557
54	314	302.3	544.1	0.083	0.074	12.403	10.929	2.4990E-05	2.6368E-05	0.878
55	315	301.6	542.9	0.004	0.003	12.413	10.938	1.0494E-06	1.1072E-06	6.652
56	406	305.4	549.7	2.081	1.833	12.357	10.888	6.2574E-04	6.6038E-04	0.350
57	407	304.9	548.8	2.229	1.964	12.364	10.895	6.7005E-04	7.0712E-04	0.350
58	408	304.5	548.0	2.208	1.945	12.370	10.900	6.6321E-04	6.9988E-04	0.308
59	409	304.1	547.4	2.072	1.826	12.376	10.904	6.2208E-04	6.5645E-04	0.267
60	410	304.0	547.2	1.813	1.598	12.377	10.906	5.4437E-04	5.7445E-04	0.267
61	411	303.5	546.3	1.589	1.400	12.385	10.913	4.7681E-04	5.0313E-04	0.314
62	412	302.9	545.2	0.999	0.880	12.394	10.921	2.9942E-04	3.1594E-04	0.487
63	413	302.3	544.1	0.538	0.474	12.404	10.929	1.6114E-04	1.7002E-04	0.664
64	414	301.2	542.1	-0.026	-0.023	12.420	10.944	-7.6546E-06	-8.0758E-06	-0.860
65	415	301.1	542.0	0.046	0.040	12.421	10.945	1.3713E-05	1.4468E-05	1.110
66	506	304.7	548.5	2.898	2.554	12.366	10.896	8.7096E-04	9.1913E-04	0.363
67	507	304.7	548.4	2.919	2.572	12.367	10.897	8.7708E-04	9.2559E-04	0.359
68	508	304.4	547.9	2.896	2.552	12.371	10.901	8.6984E-04	9.1793E-04	0.345
69	509	304.2	547.5	2.640	2.326	12.375	10.904	7.9267E-04	8.3648E-04	0.294
70	510	303.7	546.7	2.426	2.137	12.381	10.910	7.2795E-04	7.6816E-04	0.292
71	511	304.0	547.3	2.266	1.997	12.377	10.905	6.8044E-04	7.1804E-04	0.303
72	512	303.7	546.6	1.693	1.492	12.382	10.911	5.0812E-04	5.3618E-04	0.418
73	513	303.0	545.4	1.172	1.033	12.392	10.919	3.5145E-04	3.7085E-04	0.551
74	514	302.2	544.0	0.359	0.317	12.404	10.930	1.0762E-04	1.1356E-04	0.702
75	515	301.4	542.5	-0.041	-0.036	12.417	10.941	-1.2378E-05	-1.3059E-05	0.213

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7675E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.301	8.002	8.090
PT2/PT1	5.330E-02	5.138E-02	5.194E-02
TEMP(DEG R)	2066.8	610.2	2098.3
TT2/TT1	1.0273	0.3033	1.0429

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

3.5 FT. HT DATA TEST NO. 182 RUN NO. 18 FRAME 26 TO 51 CONSTANT SET 311

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.4734E 06	75.26	2081.90	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.261	2081.006	0.084	0.117	610.200	-0.273	17.6074
0.070	75.078	2081.135	0.084	0.117	610.200	-0.299	17.6115
0.140	75.078	2081.518	0.084	0.142	610.200	-0.273	17.6155
0.210	75.261	2081.903	0.087	0.321	610.200	-0.273	17.6155
0.280	75.261	2080.873	0.094	0.813	610.200	-0.273	17.6034
0.350	75.261	2081.134	0.303	1.604	610.200	-0.286	17.6074
0.420	75.078	2080.877	1.067	2.317	610.200	-0.299	17.6074
0.490	75.078	2081.646	2.213	3.058	610.200	-0.299	17.6155
0.560	75.261	2081.774	3.033	3.612	610.200	-0.273	17.6115
0.630	75.444	2081.261	3.478	3.825	610.200	-0.286	17.6034
0.700	75.261	2081.134	3.750	3.861	610.200	-0.273	17.6074
0.770	75.078	2081.006	3.887	3.785	610.200	-0.312	34.8558
0.840	75.261	2081.263	3.932	3.674	610.200	-0.286	34.9122
0.910	75.261	2081.903	3.908	3.634	610.200	-0.286	34.9324
0.980	75.444	2081.390	3.887	3.660	610.200	-0.273	34.9243
1.050	75.078	2080.617	3.884	3.710	610.200	-0.286	34.9243
1.120	75.078	2081.006	3.903	3.766	610.200	-0.299	34.9284
1.190	75.261	2081.261	3.905	3.808	610.200	-0.299	34.9284
1.260	75.261	2082.165	3.900	3.841	610.200	-0.299	34.9324
1.330	75.261	2081.647	3.879	3.864	610.200	-0.286	34.9203
1.400	75.261	2080.617	3.882	3.880	610.200	-0.286	34.9243
1.470	75.261	2081.006	3.887	3.897	610.200	-0.312	34.9243
1.540	75.078	2081.261	3.855	3.908	610.200	-0.299	34.9324
1.610	75.261	2082.163	3.887	3.914	610.200	-0.299	34.9324
1.680	75.261	2081.261	3.887	3.917	610.200	-0.299	34.9203
1.750	75.261	2080.617	3.900	3.920	610.200	-0.299	34.9243

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.5531E 06	4.7339E 05	0.305	5.12	1156.6	0.12256E 07	0.3048	1.000	RUN NO. 18
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.7339E 05	4.7339E 05	1.000	75.26	2081.9	527.04	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.251	0.0633	0.0633	0.0722	0.0761	39	208	0.254	0.0522	0.0522	0.0596	0.0629
2	2	0.278	0.0000	0.0000	0.0000	0.0000	40	210	0.253	0.0391	0.0391	0.0446	0.0470
3	3	0.251	0.0597	0.0597	0.0680	0.0718	41	211	0.252	0.0332	0.0332	0.0378	0.0399
4	4	0.251	0.0592	0.0592	0.0675	0.0712	42	212	0.254	0.0181	0.0181	0.0206	0.0217
5	5	0.251	0.0575	0.0575	0.0656	0.0691	43	213	0.252	0.0129	0.0129	0.0147	0.0155
6	6	0.251	0.0572	0.0572	0.0652	0.0687	44	214	0.251	0.0026	0.0026	0.0030	0.0032
7	7	0.251	0.0569	0.0569	0.0648	0.0684	45	215	0.251	-0.0006	-0.0006	-0.0007	-0.0007
8	8	0.252	0.0557	0.0557	0.0635	0.0670	46	306	0.252	0.0448	0.0448	0.0511	0.0539
9	9	0.252	0.0550	0.0550	0.0627	0.0661	47	307	0.252	0.0444	0.0444	0.0506	0.0534
10	10	0.252	0.0550	0.0550	0.0627	0.0661	48	308	0.252	0.0403	0.0403	0.0460	0.0485
11	11	0.252	0.0532	0.0532	0.0606	0.0640	49	309	0.252	0.0335	0.0335	0.0382	0.0403
12	12	0.252	0.0533	0.0533	0.0607	0.0640	50	310	0.252	0.0292	0.0292	0.0333	0.0351
13	13	0.253	0.0516	0.0516	0.0589	0.0621	51	311	0.251	0.0203	0.0203	0.0232	0.0244
14	14	0.253	0.0531	0.0531	0.0605	0.0639	52	312	0.251	0.0117	0.0117	0.0134	0.0141
15	15	0.253	0.0521	0.0521	0.0594	0.0627	53	313	0.250	0.0082	0.0082	0.0093	0.0099
16	16	0.253	0.0548	0.0548	0.0625	0.0659	54	314	0.250	0.0025	0.0025	0.0028	0.0030
17	17	0.253	0.0599	0.0599	0.0684	0.0721	55	315	0.250	-0.0001	-0.0001	-0.0001	-0.0001
18	18	0.254	0.0626	0.0626	0.0714	0.0753	56	406	0.251	0.0477	0.0477	0.0544	0.0573
19	19	0.254	0.0641	0.0641	0.0731	0.0771	57	407	0.251	0.0473	0.0473	0.0539	0.0569
20	20	0.254	0.0661	0.0661	0.0754	0.0796	58	408	0.251	0.0414	0.0414	0.0471	0.0497
21	21	0.254	0.0694	0.0694	0.0792	0.0835	59	409	0.251	0.0347	0.0347	0.0395	0.0417
22	22	0.254	0.0711	0.0711	0.0812	0.0856	60	410	0.251	0.0278	0.0278	0.0317	0.0334
23	23	0.254	0.0725	0.0725	0.0827	0.0872	61	411	0.251	0.0210	0.0210	0.0240	0.0253
24	24	0.254	0.0762	0.0762	0.0870	0.0917	62	412	0.250	0.0096	0.0096	0.0110	0.0116
25	25	0.254	0.0789	0.0789	0.0899	0.0949	63	413	0.250	0.0003	0.0003	0.0003	0.0003
26	103	0.256	0.0681	0.0681	0.0778	0.0820	64	414	0.249	-0.0109	-0.0109	-0.0124	-0.0131
27	105	0.257	0.0664	0.0664	0.0758	0.0800	65	415	0.250	-0.0001	-0.0001	-0.0001	-0.0001
28	107	0.257	0.0646	0.0646	0.0737	0.0777	66	506	0.251	0.0484	0.0484	0.0551	0.0581
29	108	0.256	0.0573	0.0573	0.0653	0.0689	67	507	0.251	0.0476	0.0476	0.0542	0.0572
30	110	0.255	0.0424	0.0424	0.0484	0.0510	68	508	0.251	0.0440	0.0440	0.0502	0.0529
31	111	0.255	0.0344	0.0344	0.0392	0.0413	69	509	0.251	0.0367	0.0367	0.0418	0.0441
32	112	0.254	0.0211	0.0211	0.0240	0.0253	70	510	0.250	0.0324	0.0324	0.0369	0.0389
33	113	0.254	0.0113	0.0113	0.0128	0.0135	71	511	0.251	0.0293	0.0293	0.0334	0.0352
34	114	0.253	0.0017	0.0017	0.0019	0.0021	72	512	0.251	0.0222	0.0222	0.0253	0.0267
35	115	0.252	-0.0002	-0.0002	-0.0003	-0.0003	73	513	0.250	0.0085	0.0085	0.0096	0.0102
36	203	0.254	0.0600	0.0600	0.0684	0.0722	74	514	0.250	-0.0012	-0.0012	-0.0014	-0.0014
37	205	0.255	0.0599	0.0599	0.0683	0.0721	75	515	0.250	-0.0068	-0.0068	-0.0077	-0.0081
38	207	0.254	0.0573	0.0573	0.0654	0.0689							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.5931E 06	4.7339E 05	0.305	5.12	1156.6	0.12256E 07	0.3048	1.000	RUN NO.	18
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	4.7339E 05	4.7339E 05	1.000	75.26	2081.9	527.04	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	306.4	551.5	0.571	0.503	9.019	7.947	3.4655E-04	3.6547E-04	0.180
2	2	338.7	609.7	0.000	0.000	8.679	7.648	1.4004E-15	1.4802E-15	*******
3	3	306.7	552.0	0.538	0.474	9.017	7.945	3.2671E-04	3.4455E-04	0.160
4	4	306.7	552.0	0.534	0.471	9.016	7.945	3.2424E-04	3.4195E-04	0.144
5	5	306.8	552.2	0.518	0.457	9.015	7.944	3.1483E-04	3.3203E-04	0.118
6	6	306.7	552.0	0.516	0.454	9.016	7.945	3.1303E-04	3.3012E-04	0.111
7	7	306.8	552.3	0.513	0.452	9.015	7.943	3.1135E-04	3.2836E-04	0.106
8	8	307.1	552.8	0.502	0.443	9.012	7.941	3.0510E-04	3.2177E-04	0.109
9	9	307.2	552.9	0.496	0.437	9.011	7.940	3.0111E-04	3.1756E-04	0.102
10	10	307.2	553.0	0.496	0.437	9.010	7.939	3.0112E-04	3.1758E-04	0.101
11	11	307.5	553.4	0.479	0.422	9.008	7.937	2.9121E-04	3.0712E-04	0.092
12	12	307.7	553.9	0.480	0.423	9.006	7.935	2.9154E-04	3.0748E-04	0.070
13	13	308.2	554.7	0.465	0.409	9.001	7.931	2.8266E-04	2.9812E-04	0.065
14	14	308.4	555.1	0.478	0.421	8.999	7.929	2.9065E-04	3.0656E-04	0.061
15	15	308.5	555.3	0.469	0.413	8.997	7.928	2.8525E-04	3.0086E-04	0.091
16	16	308.7	555.7	0.493	0.434	8.995	7.925	3.0000E-04	3.1643E-04	0.133
17	17	309.1	556.4	0.539	0.475	8.991	7.922	3.2818E-04	3.4615E-04	0.179
18	18	309.5	557.1	0.562	0.496	8.987	7.919	3.4272E-04	3.6150E-04	0.199
19	19	309.8	557.6	0.576	0.507	8.984	7.916	3.5097E-04	3.7022E-04	0.218
20	20	309.9	557.8	0.594	0.523	8.983	7.915	3.6212E-04	3.8198E-04	0.231
21	21	310.3	558.5	0.623	0.549	8.979	7.911	3.7999E-04	4.0084E-04	0.242
22	22	310.1	558.1	0.639	0.563	8.981	7.913	3.8959E-04	4.1095E-04	0.247
23	23	310.0	558.0	0.651	0.574	8.981	7.914	3.9687E-04	4.1864E-04	0.252
24	24	310.1	558.1	0.685	0.603	8.981	7.913	4.1752E-04	4.4042E-04	0.261
25	25	309.5	557.1	0.709	0.624	8.987	7.919	4.3179E-04	4.5545E-04	0.265
26	103	312.7	562.9	0.610	0.538	8.953	7.889	3.7324E-04	3.9379E-04	0.250
27	105	313.5	564.2	0.594	0.524	8.945	7.882	3.6393E-04	3.8398E-04	0.244
28	107	313.0	563.4	0.578	0.509	8.950	7.886	3.5363E-04	3.7310E-04	0.231
29	108	312.3	562.1	0.513	0.452	8.957	7.892	3.1363E-04	3.3088E-04	0.135
30	110	311.3	560.4	0.380	0.335	8.968	7.902	2.3222E-04	2.4498E-04	0.138
31	111	310.9	559.5	0.308	0.272	8.972	7.906	1.8811E-04	1.9844E-04	0.258
32	112	310.1	558.1	0.189	0.167	8.981	7.913	1.1533E-04	1.2166E-04	0.521
33	113	309.5	557.1	0.101	0.089	8.987	7.919	6.1604E-05	6.4980E-05	0.735
34	114	308.4	555.1	0.015	0.014	8.998	7.929	9.3620E-06	9.8744E-06	0.899
35	115	307.3	553.1	-0.002	-0.002	9.010	7.939	-1.3025E-06	-1.3737E-06	0.582
36	203	310.2	558.4	0.539	0.475	8.979	7.912	3.2844E-04	3.4645E-04	0.197
37	205	310.6	559.1	0.537	0.474	8.975	7.908	3.2792E-04	3.4592E-04	0.204
38	207	310.4	558.7	0.514	0.453	8.977	7.910	3.1371E-04	3.3092E-04	0.191
39	208	310.0	558.0	0.469	0.413	8.982	7.914	2.8608E-04	3.0177E-04	0.112
40	210	309.3	556.7	0.351	0.309	8.989	7.920	2.1394E-04	2.2567E-04	0.034
41	211	307.8	554.0	0.299	0.263	9.005	7.934	1.8165E-04	1.9158E-04	0.214
42	212	310.0	558.0	0.162	0.143	8.981	7.914	9.8857E-05	1.0428E-04	0.689
43	213	307.2	552.9	0.116	0.103	9.011	7.940	7.0688E-05	7.4542E-05	0.735
44	214	306.5	551.7	0.024	0.021	9.019	7.947	1.4403E-05	1.5190E-05	1.244
45	215	305.8	550.5	-0.005	-0.005	9.025	7.952	-3.3254E-06	-3.5067E-06	-0.279
46	306	308.0	554.4	0.404	0.356	9.002	7.932	2.4554E-04	2.5897E-04	0.064
47	307	307.8	554.1	0.400	0.352	9.004	7.934	2.4295E-04	2.5624E-04	0.036
48	308	307.5	553.6	0.363	0.320	9.007	7.937	2.2069E-04	2.3275E-04	-0.073
49	309	307.2	553.0	0.302	0.266	9.011	7.940	1.8356E-04	1.9359E-04	-0.178
50	310	307.1	552.7	0.263	0.232	9.012	7.941	1.5982E-04	1.6855E-04	-0.144
51	311	306.7	552.0	0.183	0.161	9.016	7.945	1.1125E-04	1.1733E-04	0.027
52	312	306.3	551.4	0.106	0.093	9.020	7.948	6.4231E-05	6.7736E-05	0.458
53	313	305.7	550.2	0.074	0.065	9.027	7.954	4.4873E-05	4.7320E-05	0.696
54	314	305.7	550.2	0.022	0.020	9.027	7.954	1.3590E-05	1.4331E-05	1.358
55	315	305.3	549.6	-0.001	-0.001	9.030	7.957	-4.8259E-07	-5.0890E-07	-14.001
56	406	306.7	552.1	0.430	0.379	9.016	7.944	2.6107E-04	2.7532E-04	0.072
57	407	306.5	551.7	0.426	0.376	9.019	7.947	2.5885E-04	2.7299E-04	0.046
58	408	306.3	551.3	0.373	0.329	9.021	7.948	2.2639E-04	2.3875E-04	-0.070
59	409	306.1	551.0	0.313	0.275	9.023	7.950	1.[illegible]8E-04	2.0003E-04	-0.143
60	410	306.0	550.8	0.251	0.221	9.023	7.951	1.[illegible]E-04	1.6046E-04	-0.102
61	411	305.8	550.4	0.190	0.167	9.026	7.953	1.15[illegible]8E-04	1.2147E-04	-0.000
62	412	305.4	549.7	0.087	0.077	9.030	7.957	5.2727E-05	5.5601E-05	0.473
63	413	304.9	548.8	0.002	0.002	9.035	7.961	1.3977E-06	1.4738E-06	15.126
64	414	304.0	547.2	-0.098	-0.087	9.045	7.970	-5.9495E-05	-6.2732E-05	0.321
65	415	304.5	548.1	-0.001	-0.001	9.039	7.965	-6.7444E-07	-7.1116E-07	-8.984
66	506	306.2	551.2	0.436	0.384	9.021	7.949	2.6470E-04	2.7915E-04	0.076
67	507	306.2	551.2	0.429	0.378	9.021	7.949	2.6034E-04	2.7455E-04	0.055
68	508	306.2	551.1	0.397	0.350	9.022	7.950	2.4088E-04	2.5400E-04	-0.040
69	509	306.0	550.8	0.331	0.292	9.024	7.951	2.0073E-04	2.1168E-04	-0.131
70	510	305.7	550.2	0.292	0.258	9.027	7.954	1.7726E-04	1.8693E-04	-0.067
71	511	306.0	550.8	0.264	0.233	9.024	7.951	1.6036E-04	1.6911E-04	0.010
72	512	305.8	550.4	0.200	0.177	9.026	7.953	1.2157E-04	1.2820E-04	0.492
73	513	305.5	549.8	0.076	0.067	9.029	7.956	4.[illegible]8E-05	4.8790E-05	0.566
74	514	305.0	549.0	-0.011	-0.010	9.034	7.960	-6.5990E-06	-6.9585E-06	0.245
75	515	304.6	548.2	-0.061	-0.054	9.039	7.964	-3.6983E-05	-3.8996E-05	0.346

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3033E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.965	3.900	3.920
PT2/PT1	5.268E-02	5.182E-02	5.208E-02
TEMP(DEG R)	2057.1	610.2	2186.1
TT2/TT1	0.9881	0.2931	1.0501

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 19 FRAME 26 TO 52 CONSTANT SET 681

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.4465E 06	75.58	2160.05	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	75.761	2161.948	0.112	0.128	610.200	-0.292	17.6097
0.140	75.761	2161.948	0.115	0.354	610.200	-0.266	17.6097
0.210	75.944	2161.695	0.128	0.941	610.200	-0.266	17.6056
0.280	75.761	2161.822	0.346	1.607	610.200	-0.292	17.6056
0.350	75.761	2161.442	1.174	2.470	610.200	-0.292	17.6137
0.420	75.761	2162.074	2.296	3.051	610.200	-0.292	17.6178
0.490	75.761	2161.821	3.049	3.495	610.200	-0.279	17.6056
0.560	75.944	2161.187	3.431	3.727	610.200	-0.266	17.6097
0.630	75.578	2161.063	3.662	3.791	610.200	-0.292	17.6056
0.700	75.578	2161.315	3.798	3.691	610.200	-0.305	31.8669
0.770	75.578	2161.695	3.829	3.503	610.200	-0.266	34.9289
0.840	75.761	2161.314	3.829	3.411	610.200	-0.279	34.9289
0.910	75.578	2159.667	3.813	3.392	610.200	-0.292	34.9329
0.980	75.578	2160.048	3.811	3.439	610.200	-0.292	34.9289
1.050	75.578	2160.428	3.800	3.484	610.200	-0.292	34.9329
1.120	75.578	2160.934	3.776	3.512	610.200	-0.305	34.9370
1.190	75.761	2160.427	3.771	3.540	610.200	-0.292	34.9289
1.260	75.578	2159.413	3.787	3.568	610.200	-0.292	34.9329
1.330	75.578	2159.289	3.808	3.596	610.200	-0.305	34.9329
1.400	75.578	2159.921	3.800	3.610	610.200	-0.305	34.9370
1.470	75.578	2160.427	3.784	3.624	610.200	-0.292	34.9370
1.540	75.578	2160.174	3.761	3.610	610.200	-0.292	34.9289
1.610	75.761	2159.413	3.761	3.584	610.200	-0.279	34.9289
1.680	75.578	2159.414	3.787	3.596	610.200	-0.292	34.9329
1.750	75.761	2158.907	3.803	3.618	610.200	-0.305	34.9329
1.820	75.761	2159.793	3.787	3.652	610.200	-0.292	34.9370

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.4649E 06	4.4651E 05	0.305	5.14	1200.0	0.12763E 07	0.3048	1.000	RUN NO. 19
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.465)E 05	4.4651E 05	1.000	75.58	2160.0	548.85	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.236	0.0556	0.0556	0.0633	0.0666	39	208	0.241	0.0639	0.0639	0.0728	0.0767
2	7	0.267	0.0001	0.0001	0.0001	0.0001	40	210	0.240	0.0487	0.0487	0.0554	0.0584
3	8	0.237	0.0526	0.0526	0.0598	0.0629	41	211	0.239	0.0408	0.0408	0.0464	0.0489
4	9	0.237	0.0528	0.0528	0.0601	0.0633	42	212	0.238	0.0289	0.0289	0.0329	0.0347
5	10	0.237	0.0540	0.0540	0.0614	0.0647	43	213	0.267	0.0000	0.0000	0.0000	0.0000
6	11	0.237	0.0527	0.0527	0.0599	0.0631	44	214	0.267	-0.0000	-0.0000	-0.0000	-0.0001
7	12	0.237	0.0532	0.0532	0.0605	0.0637	45	215	0.236	0.0013	0.0013	0.0014	0.0015
8	13	0.237	0.0527	0.0527	0.0599	0.0631	46	216	0.236	-0.0001	-0.0001	-0.0001	-0.0001
9	14	0.238	0.0542	0.0542	0.0616	0.0649	47	217	0.235	-0.0002	-0.0002	-0.0002	-0.0002
10	15	0.238	0.0525	0.0525	0.0597	0.0629	48	218	0.235	-0.0010	-0.0010	-0.0012	-0.0012
11	16	0.238	0.0545	0.0545	0.0620	0.0653	49	219	0.235	-0.0013	-0.0013	-0.0014	-0.0015
12	17	0.239	0.0595	0.0595	0.0676	0.0713	50	220	0.235	-0.0021	-0.0021	-0.0024	-0.0026
13	18	0.239	0.0655	0.0655	0.0745	0.0785	51	406	0.240	0.0591	0.0591	0.0672	0.0708
14	19	0.240	0.0678	0.0678	0.0772	0.0813	52	407	0.240	0.0597	0.0597	0.0679	0.0716
15	20	0.240	0.0705	0.0705	0.0802	0.0845	53	408	0.239	0.0564	0.0564	0.0642	0.0676
16	21	0.240	0.0758	0.0758	0.0862	0.0908	54	409	0.239	0.0494	0.0494	0.0562	0.0592
17	22	0.240	0.0770	0.0770	0.0876	0.0923	55	410	0.239	0.0418	0.0418	0.0475	0.0501
18	23	0.240	0.0778	0.0778	0.0885	0.0932	56	411	0.238	0.0358	0.0358	0.0408	0.0430
19	24	0.241	0.0820	0.0820	0.0933	0.0983	57	412	0.237	0.0221	0.0221	0.0251	0.0264
20	25	0.240	0.0838	0.0838	0.0954	0.1005	58	413	0.237	0.0129	0.0129	0.0146	0.0154
21	103	0.243	0.0799	0.0799	0.0910	0.0959	59	414	0.236	0.0014	0.0014	0.0016	0.0017
22	105	0.244	0.0784	0.0784	0.0893	0.0941	60	415	0.236	-0.0014	-0.0014	-0.0016	-0.0017
23	107	0.244	0.0764	0.0764	0.0869	0.0916	61	416	0.235	-0.0023	-0.0023	-0.0026	-0.0027
24	108	0.243	0.0686	0.0686	0.0781	0.0823	62	417	0.235	-0.0049	-0.0049	-0.0056	-0.0059
25	110	0.242	0.0527	0.0527	0.0599	0.0632	63	418	0.234	-0.0067	-0.0067	-0.0076	-0.0080
26	111	0.242	0.0444	0.0444	0.0505	0.0532	64	419	0.233	-0.0092	-0.0092	-0.0104	-0.0110
27	112	0.241	0.0303	0.0303	0.0345	0.0364	65	420	0.234	-0.0011	-0.0011	-0.0013	-0.0013
28	113	0.240	0.0178	0.0178	0.0203	0.0214	66	506	0.239	0.0559	0.0559	0.0636	0.0670
29	114	0.239	0.0051	0.0051	0.0058	0.0061	67	507	0.239	0.0540	0.0540	0.0614	0.0647
30	115	0.238	0.0006	0.0006	0.0006	0.0007	68	508	0.239	0.0501	0.0501	0.0570	0.0600
31	116	0.237	0.0002	0.0002	0.0003	0.0003	69	509	0.238	0.0418	0.0418	0.0475	0.0501
32	117	0.236	0.0000	0.0000	0.0000	0.0000	70	510	0.238	0.0362	0.0362	0.0412	0.0434
33	118	0.236	-0.0004	-0.0004	-0.0005	-0.0005	71	511	0.238	0.0329	0.0329	0.0374	0.0394
34	119	0.236	-0.0002	-0.0002	-0.0002	-0.0002	72	512	0.238	0.0215	0.0215	0.0245	0.0258
35	120	0.235	-0.0001	-0.0001	-0.0002	-0.0002	73	513	0.237	0.0092	0.0092	0.0105	0.0110
36	203	0.241	0.0739	0.0739	0.0840	0.0886	74	514	0.236	0.0008	0.0008	0.0009	0.0010
37	205	0.241	0.0738	0.0738	0.0840	0.0886	75	515	0.236	-0.0059	-0.0059	-0.0067	-0.0071
38	207	0.241	0.0710	0.0710	0.0808	0.0851							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.4649E 06	4.4651E 05	0.305	5.14	1200.0	0.12763E 07	0.3048	1.000	RUN NO. 19
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.4651E 05	4.4651E 05	1.000	75.58	2160.0	548.85	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	300.5	540.8	0.534	0.470	9.594	8.454	3.1183E-04	3.2846E-C4	0.002
2	7	338.7	609.7	0.CC1	0.C01	9.190	8.097	3.4771E-C7	3.6717E-C7	1.575
3	8	300.8	541.5	0.504	0.444	9.590	8.450	2.5453E-04	3.1024E-C4	-0.033
4	9	300.9	541.6	0.507	0.446	9.590	8.450	2.9610E-04	3.1190E-04	-C.034
5	10	301.1	541.9	0.518	0.457	9.588	8.448	3.0283E-04	3.1899E-C4	-C.021
6	11	301.2	542.2	0.505	0.445	9.586	8.447	2.9541E-04	3.1118E-C4	-0.024
7	12	301.5	542.8	0.510	0.449	9.583	8.444	2.9798E-04	3.1390E-C4	-C.023
8	13	301.8	543.2	0.505	0.445	9.580	8.441	2.9540E-04	3.1118E-04	-C.032
9	14	301.9	543.4	0.519	0.457	9.579	8.440	3.0377E-04	3.1999E-C4	-0.031
10	15	302.1	543.8	0.503	0.443	9.577	8.439	2.9409E-04	3.0981E-C4	-0.001
11	16	302.2	543.9	0.522	0.460	9.576	8.438	3.0561E-04	3.2194E-04	C.015
12	17	303.1	545.6	0.569	0.501	9.566	8.429	3.3330E-04	3.5113E-04	C.063
13	18	304.2	547.6	0.626	0.551	9.554	8.419	3.6709E-04	3.8676E-C4	C.096
14	19	304.8	548.7	0.648	0.571	9.548	8.413	3.8019E-04	4.0057E-C4	0.125
15	20	304.9	548.7	0.673	0.593	9.548	8.413	3.9518E-04	4.1636E-04	C.141
16	21	305.2	549.3	0.723	0.637	9.544	8.410	4.2482E-04	4.4760E-04	C.167
17	22	305.3	549.5	0.735	0.647	9.543	8.409	4.3157E-04	4.5472E-C4	C.168
18	23	305.4	549.6	0.742	0.654	9.542	8.408	4.3597E-04	4.5936E-C4	0.161
19	24	306.1	550.9	0.782	0.689	9.535	8.401	4.5970E-04	4.8438E-04	0.181
20	25	305.0	549.0	0.800	0.705	9.546	8.411	4.6988E-04	4.9508E-04	0.175
21	103	309.0	556.2	0.760	0.669	9.504	8.374	4.4823E-04	4.7238E-04	0.177
22	105	310.2	558.4	0.744	0.656	9.491	8.363	4.3976E-04	4.6349E-04	0.176
23	107	309.7	557.5	0.725	0.639	9.496	8.367	4.2821E-04	4.5131E-04	0.164
24	108	308.7	555.7	0.652	0.574	9.507	8.377	3.8449E-04	4.0521E-04	0.057
25	110	307.3	553.2	0.501	0.442	9.521	8.389	2.9526E-04	3.1114E-04	C.004
26	111	306.9	552.4	0.423	0.372	9.526	8.393	2.4870E-04	2.6207E-04	0.108
27	112	305.8	550.5	0.289	0.255	9.537	8.404	1.6999E-04	1.7912E-04	0.394
28	113	304.9	548.8	0.170	0.150	9.547	8.412	9.9964E-05	1.0532E-04	0.591
29	114	303.5	546.4	0.048	0.043	9.561	8.425	2.8418E-05	2.9939E-05	0.841
30	115	302.2	544.0	0.005	0.005	9.576	8.437	3.1718E-06	3.3413E-06	0.222
31	116	301.3	542.3	0.002	0.802	9.586	8.446	1.3657E-06	1.4386E-06	0.239
32	117	300.9	540.9	0.000	0.000	9.594	8.453	1.8849E-07	1.9854E-07	C.363
33	118	300.1	540.3	-0.004	-0.004	9.597	8.457	-2.3776E-06	-2.5043E-06	0.935
34	119	299.6	539.3	-0.002	-0.002	9.603	8.462	-1.0294E-06	-1.0842E-06	0.856
35	120	299.1	538.3	-0.001	-0.001	9.609	8.467	-7.6180E-07	-8.0236E-07	0.197
36	203	306.3	551.3	0.704	0.620	9.533	8.400	4.1404E-04	4.3628E-04	0.155
37	205	306.9	552.4	0.703	0.620	9.526	8.394	4.1402E-04	4.3628E-C4	0.165
38	207	306.7	552.0	0.676	0.596	9.528	8.396	3.9804E-04	4.1943E-04	0.152
39	208	306.0	550.7	0.610	0.537	9.536	8.402	3.5846E-04	3.7771E-04	C.056
40	210	304.9	548.7	0.465	0.410	9.548	8.413	2.7304E-04	2.8768E-04	-0.013
41	211	303.2	545.7	0.391	0.344	9.565	8.428	2.2883E-04	2.4107E-C4	0.125
42	212	302.7	544.8	0.277	0.244	9.571	8.433	1.6215E-04	1.7082E-04	0.403
43	213	338.7	609.7	0.000	0.000	9.189	8.097	2.5498E-16	2.6926E-16	*******
44	214	338.7	609.6	-0.000	-0.000	9.190	8.098	-2.4270E-07	-2.5628E-07	0.805
45	215	300.0	540.0	0.012	0.011	9.599	8.458	7.1278E-06	7.5077E-06	1.444
46	216	299.5	539.2	-0.001	-0.001	9.604	8.462	-6.0587E-07	-6.3814E-07	-5.659
47	217	299.1	538.3	-0.002	-0.002	9.609	8.467	-1.1168E-06	-1.1763E-06	-2.493
48	218	298.7	537.6	-0.010	-0.009	9.613	8.471	-5.6885E-06	-5.9912E-06	0.491
49	219	298.4	537.1	-0.012	-0.011	9.616	8.473	-7.0054E-06	-7.3781E-06	-0.084
50	220	298.1	536.5	-0.021	-0.018	9.619	8.476	-1.2035E-05	-1.2675E-05	0.261
51	406	305.0	549.0	0.564	0.497	9.546	8.411	3.3118E-04	3.4894E-04	C.055
52	407	304.4	548.0	0.570	0.502	9.552	8.417	3.3462E-04	3.5255E-04	C.048
53	408	303.5	546.3	0.540	0.476	9.562	8.425	3.1637E-04	3.3330E-04	-0.025
54	409	303.6	546.4	0.473	0.417	9.561	8.425	2.7711E-04	2.9195E-04	-0.100
55	410	303.2	545.8	0.400	0.352	9.565	8.428	2.3425E-04	2.4679E-04	-0.044
56	411	302.7	544.9	0.343	0.302	9.570	8.432	2.0092E-04	2.1166E-04	C.089
57	412	301.8	543.2	0.211	0.186	9.580	8.442	1.2358E-04	1.3019E-04	0.428
58	413	301.4	542.5	0.123	0.109	9.585	8.445	7.2090E-05	7.5939E-05	0.668
59	414	300.4	540.7	0.014	0.012	9.595	8.455	8.1097E-06	8.5422E-06	1.895
60	415	299.8	539.7	-0.013	-0.012	9.601	8.460	-7.6741E-06	-8.2937E-06	-C.908
61	416	299.2	538.5	-0.022	-0.019	9.608	8.466	-1.2808E-C5	-1.3489E-C5	-0.787
62	417	298.5	537.3	-0.047	-0.042	9.615	8.472	-2.7517E-05	-2.8981E-05	0.028
63	418	297.6	535.8	-0.064	-0.056	9.624	8.480	-3.7278E-05	-3.9259E-05	-C.098
64	419	296.7	534.1	-0.088	-0.078	9.634	8.489	-5.1314E-05	-5.4038E-05	C.060
65	420	297.9	536.2	-0.011	-0.C09	9.622	8.478	-6.1921E-C6	-6.5213E-C6	0.270
66	506	304.1	547.3	0.534	0.471	9.556	8.420	3.1343E-04	3.3022E-04	C.038
67	507	303.9	547.0	0.516	0.455	9.558	8.422	3.0278E-04	3.1899E-04	C.007
68	508	303.5	546.3	0.479	0.422	9.562	8.426	2.8082E-04	2.9585E-04	-C.078
69	509	303.0	545.4	0.4C0	0.352	9.567	8.430	2.3413E-04	2.4665E-C4	-C.185
70	510	302.5	544.5	0.346	0.305	9.572	8.435	2.0285E-04	2.1370E-04	-C.144
71	511	302.8	545.1	0.315	0.278	9.569	8.432	1.8451E-04	1.9438E-04	-C.064
72	512	302.2	543.9	0.206	0.181	9.576	8.438	1.2054E-04	1.2698E-04	0.276
73	513	301.5	542.6	0.088	0.078	9.583	8.444	5.1624E-C5	5.4380E-C5	0.297
74	514	300.5	540.9	0.008	0.C07	9.594	8.453	4.6128E-C6	4.8588E-06	1.970
75	515	299.6	539.2	-0.057	-0.050	9.604	8.462	-3.3258E-05	-3.5029E-05	0.419

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2721E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.683	3.787	3.652
PT2/PT1	4.873E-02	5.011E-02	4.831E-02
TEMP(DEG R)	2124.6	610.2	2237.0
TT2/TT1	0.9836	0.2825	1.0356

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 20 FRAME 26 TC **** CONSTANT SET 681

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9976E 06		155.89	2060.83	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	155.891	2061.735	0.175	0.248	610.200	-0.292	17.6097
0.070	155.891	2061.993	0.175	0.251	610.200	-0.279	17.6218
0.140	155.891	2062.121	0.175	0.321	610.200	-0.266	17.6137
0.210	155.891	2061.346	0.175	0.771	610.200	-0.279	17.6097
0.280	155.891	2061.864	0.225	2.136	610.200	-0.279	17.6056
0.350	156.074	2061.605	0.778	3.856	610.200	-0.292	17.5572
0.420	156.074	2062.509	2.559	5.184	610.200	-0.292	17.6137
0.490	155.891	2062.121	4.822	6.552	610.200	-0.292	17.6097
0.560	156.074	2061.218	6.279	7.491	610.200	-0.266	17.6097
0.630	155.708	2061.477	7.119	7.869	610.200	-0.292	17.6137
0.700	156.074	2061.347	7.680	7.899	610.200	-0.292	17.6137
0.770	155.891	2061.734	7.941	7.673	610.200	-0.305	34.7917
0.840	156.074	2061.735	7.941	7.444	610.200	-0.266	34.8886
0.910	155.891	2060.829	7.862	7.388	610.200	-0.279	34.9289
0.980	155.708	2060.960	7.838	7.516	610.200	-0.292	34.9329
1.050	155.891	2060.960	7.833	7.715	610.200	-0.305	34.9329
1.120	155.891	2061.218	7.833	7.902	610.200	-0.292	34.9410
1.190	156.074	2061.604	7.830	8.022	610.200	-0.292	34.9329
1.260	156.074	2060.699	7.851	8.146	610.200	-0.292	34.9249
1.330	155.891	2060.959	7.865	8.227	610.200	-0.279	34.9329
1.400	155.891	2060.960	7.865	8.246	610.200	-0.305	34.9370
1.470	155.891	2061.345	7.857	8.302	610.200	-0.292	34.9370
1.540	156.074	2061.475	7.865	8.330	610.200	-0.279	34.9329
1.610	155.891	2060.829	7.857	8.316	610.200	-0.279	34.9249
1.680	155.891	2060.701	7.838	8.294	610.200	-0.292	34.9329
-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.000	-0.0000

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2729E 06	9.9759E 05	0.305	10.60	1144.9	0.12120E 07	0.3048	1.000	RUN NO. 20
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9759E 05	9.9759E 05	1.000	155.89	2060.8	521.18	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.253	0.2524	0.2524	0.2879	0.3036	39	208	0.259	0.0550	0.0550	0.0628	0.0663
2	7	0.253	0.0000	0.0000	0.0000	0.0000	40	210	0.258	0.0430	0.0430	0.0491	0.0518
3	8	0.254	0.1914	0.1914	0.2183	0.2302	41	211	0.256	0.0404	0.0404	0.0461	0.0487
4	9	0.254	0.1574	0.1574	0.1795	0.1894	42	212	0.256	0.0283	0.0283	0.0323	0.0340
5	10	0.254	0.1239	0.1239	0.1413	0.1491	43	213	0.281	0.0000	0.0000	0.0000	0.0000
6	11	0.254	0.1001	0.1001	0.1142	0.1204	44	214	0.281	0.0000	0.0000	0.0000	0.0000
7	12	0.254	0.0913	0.0913	0.1041	0.1098	45	215	0.253	-0.0039	-0.0039	-0.0044	-0.0047
8	13	0.255	0.0717	0.0717	0.0819	0.0864	46	216	0.252	-0.0064	-0.0064	-0.0073	-0.0077
9	14	0.255	0.0621	0.0621	0.0709	0.0748	47	217	0.252	-0.0115	-0.0115	-0.0131	-0.0138
10	15	0.255	0.0641	0.0641	0.0731	0.0771	48	218	0.251	-0.0091	-0.0091	-0.0103	-0.0109
11	16	0.256	0.0673	0.0673	0.0768	0.0810	49	219	0.251	-0.0161	-0.0161	-0.0183	-0.0193
12	17	0.257	0.0687	0.0687	0.0784	0.0827	50	220	0.251	-0.0153	-0.0153	-0.0174	-0.0184
13	18	0.258	0.0618	0.0618	0.0706	0.0745	51	406	0.258	0.0304	0.0304	0.0347	0.0366
14	19	0.258	0.0622	0.0622	0.0710	0.0749	52	407	0.258	0.0278	0.0278	0.0318	0.0335
15	20	0.258	0.0631	0.0631	0.0720	0.0760	53	408	0.257	0.0557	0.0557	0.0636	0.0671
16	21	0.258	0.0678	0.0678	0.0774	0.0817	54	409	0.257	0.0532	0.0532	0.0607	0.0640
17	22	0.258	0.0696	0.0696	0.0795	0.0839	55	410	0.256	0.0476	0.0476	0.0543	0.0573
18	23	0.258	0.0722	0.0722	0.0824	0.0869	56	411	0.256	0.0416	0.0416	0.0475	0.0501
19	24	0.259	0.0772	0.0772	0.0881	0.0930	57	412	0.255	0.0267	0.0267	0.0305	0.0322
20	25	0.232	0.0771	0.0771	0.0876	0.0923	58	413	0.254	0.0151	0.0151	0.0173	0.0182
21	103	0.262	0.0722	0.0722	0.0825	0.0870	59	414	0.253	-0.0018	-0.0018	-0.0021	-0.0022
22	105	0.263	0.0714	0.0714	0.0816	0.0861	60	415	0.253	-0.0079	-0.0079	-0.0090	-0.0095
23	107	0.262	0.0704	0.0704	0.0804	0.0849	61	416	0.252	-0.0117	-0.0117	-0.0134	-0.0141
24	108	0.261	0.0655	0.0655	0.0748	0.0789	62	417	0.251	-0.0150	-0.0150	-0.0171	-0.0180
25	110	0.260	0.0523	0.0523	0.0597	0.0630	63	418	0.251	-0.0204	-0.0204	-0.0233	-0.0246
26	111	0.260	0.0443	0.0443	0.0505	0.0533	64	419	0.250	-0.0266	-0.0266	-0.0304	-0.0320
27	112	0.258	0.0309	0.0309	0.0352	0.0372	65	420	0.251	-0.0030	-0.0030	-0.0034	-0.0036
28	113	0.258	0.0189	0.0189	0.0216	0.0228	66	506	0.258	0.0450	0.0450	0.0513	0.0542
29	114	0.256	0.0045	0.0045	0.0051	0.0054	67	507	0.258	0.0462	0.0462	0.0527	0.0557
30	115	0.255	-0.0009	-0.0009	-0.0010	-0.0011	68	508	0.257	0.0527	0.0527	0.0601	0.0634
31	116	0.254	-0.0023	-0.0023	-0.0026	-0.0028	69	509	0.257	0.0513	0.0513	0.0586	0.0618
32	117	0.253	-0.0055	-0.0055	-0.0063	-0.0066	70	510	0.256	0.0471	0.0471	0.0537	0.0567
33	118	0.253	-0.0025	-0.0025	-0.0028	-0.0030	71	511	0.256	0.0427	0.0427	0.0487	0.0514
34	119	0.252	-0.0022	-0.0022	-0.0025	-0.0027	72	512	0.255	0.0295	0.0295	0.0337	0.0355
35	120	0.252	-0.0017	-0.0017	-0.0020	-0.0021	73	513	0.255	0.0179	0.0179	0.0204	0.0216
36	203	0.260	0.0650	0.0650	0.0742	0.0783	74	514	0.253	0.0004	0.0004	0.0004	0.0005
37	205	0.261	0.0633	0.0633	0.0723	0.0763	75	515	0.253	-0.0098	-0.0098	-0.0112	-0.0118
38	207	0.260	0.0600	0.0600	0.0685	0.0723							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2724E 06	9.9759E 05	0.305	10.60	1144.9	0.12120E 07	0.3048	1.CCC	RUN NO. 20
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9759E 05	9.9759E 05	1.000	155.89	2060.8	521.18	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	305.4	549.8	3.232	2.848	12.805	11.283	9.5220E-04	1.0054E-03	0.400
2	7	304.8	548.7	0.000	0.000	12.814	11.291	1.1168E-05	1.1779E-09	*******
3	8	306.1	551.0	2.448	2.157	12.795	11.274	7.2271E-04	7.6232E-04	0.356
4	9	306.3	551.4	2.013	1.774	12.791	11.270	5.9443E-04	6.2703E-04	0.335
5	10	306.5	551.8	1.584	1.396	12.788	11.268	4.6792E-04	4.9358E-04	0.215
6	11	306.2	551.2	1.280	1.128	12.792	11.272	3.7801E-04	3.9873E-04	0.098
7	12	306.5	551.7	1.168	1.029	12.789	11.269	3.4481E-04	3.6372E-04	0.122
8	13	307.8	554.0	0.916	0.807	12.769	11.252	2.7101E-04	2.8589E-04	0.087
9	14	308.0	554.3	0.793	0.699	12.766	11.249	2.3467E-04	2.4757E-04	0.002
10	15	308.1	554.6	0.818	0.721	12.764	11.247	2.4206E-04	2.5536E-04	0.107
11	16	308.4	555.2	0.859	0.757	12.759	11.243	2.5419E-04	2.6816E-04	0.125
12	17	309.6	557.4	0.875	0.771	12.741	11.226	2.5955E-04	2.7384E-04	0.161
13	18	311.0	559.8	0.786	0.693	12.720	11.208	2.3361E-04	2.4650E-04	0.103
14	19	311.5	560.7	0.790	0.696	12.713	11.202	2.3485E-04	2.4782E-04	0.122
15	20	311.4	560.6	0.802	0.706	12.714	11.202	2.3827E-04	2.5142E-04	0.126
16	21	311.7	561.0	0.862	0.760	12.710	11.199	2.5634E-04	2.7050E-04	0.150
17	22	311.8	561.3	0.885	0.779	12.708	11.197	2.6303E-04	2.7756E-04	0.156
18	23	311.7	561.0	0.917	0.808	12.710	11.199	2.7264E-04	2.8770E-04	0.156
19	24	312.2	561.9	0.980	0.864	12.702	11.193	2.9158E-04	3.0769E-04	0.198
20	25	280.0	504.0	1.017	0.897	13.192	11.624	2.9073E-04	3.0613E-04	-4.039
21	103	316.3	569.4	0.912	0.804	12.639	11.137	2.7280E-04	2.8796E-04	0.176
22	105	317.5	571.6	0.901	0.794	12.621	11.121	2.6998E-04	2.8501E-04	0.175
23	107	316.8	570.2	0.889	0.784	12.633	11.131	2.6612E-04	2.8091E-04	0.174
24	108	315.4	567.7	0.828	0.730	12.654	11.150	2.4742E-04	2.6115E-04	0.079
25	110	314.0	565.1	0.662	0.584	12.675	11.169	1.9747E-04	2.0841E-04	-0.024
26	111	313.2	563.8	0.562	0.495	12.687	11.179	1.6728E-04	1.7654E-04	0.022
27	112	311.9	561.4	0.392	0.346	12.707	11.197	1.1666E-04	1.2311E-04	0.197
28	113	310.8	559.5	0.241	0.212	12.723	11.211	7.1510E-05	7.5455E-05	0.323
29	114	309.2	556.5	0.057	0.051	12.748	11.232	1.6988E-05	1.7923E-05	0.319
30	115	307.7	553.8	-0.011	-0.010	12.771	11.253	-3.3561E-06	-3.5405E-06	1.576
31	116	306.6	551.9	-0.030	-0.026	12.787	11.267	-8.7167E-06	-9.1948E-06	0.961
32	117	305.8	550.5	-0.071	-0.062	12.799	11.277	-2.0834E-05	-2.1976E-05	0.771
33	118	305.1	549.2	-0.031	-0.028	12.810	11.287	-9.2817E-06	-9.7897E-06	0.829
34	119	304.6	548.3	-0.029	-0.025	12.817	11.294	-8.4424E-06	-8.9042E-06	0.850
35	120	304.1	547.3	-0.022	-0.020	12.825	11.301	-6.5724E-06	-6.9317E-06	0.712
36	203	313.6	564.6	0.824	0.726	12.680	11.173	2.4555E-04	2.5914E-04	0.132
37	205	314.4	565.9	0.802	0.707	12.668	11.163	2.3924E-04	2.5249E-04	0.126
38	207	313.9	565.1	0.760	0.670	12.676	11.169	2.2672E-04	2.3928E-04	0.106
39	208	313.0	563.4	0.698	0.615	12.690	11.181	2.0793E-04	2.1943E-04	-0.001
40	210	311.7	561.1	0.547	0.482	12.709	11.199	1.6255E-04	1.7152E-04	-0.127
41	211	309.1	556.3	0.515	0.454	12.749	11.234	1.5266E-04	1.6107E-04	0.080
42	212	308.5	555.3	0.361	0.318	12.758	11.242	1.0679E-04	1.1267E-04	0.287
43	213	338.7	609.7	0.000	0.000	12.301	10.839	2.8426E-16	3.0055E-16	*******
44	214	338.7	609.6	0.000	0.000	12.302	10.839	1.2199E-07	1.2898E-07	1.225
45	215	305.1	549.2	-0.050	-0.044	12.810	11.287	-1.4718E-05	-1.5523E-05	0.500
46	216	304.3	547.7	-0.082	-0.072	12.822	11.298	-2.4174E-05	-2.5495E-05	0.672
47	217	303.7	546.7	-0.147	-0.129	12.831	11.306	-4.3247E-05	-4.5609E-05	0.649
48	218	303.2	545.7	-0.116	-0.103	12.839	11.313	-3.4231E-05	-3.6100E-05	0.662
49	219	302.8	545.1	-0.206	-0.182	12.844	11.318	-6.0658E-05	-6.3968E-05	0.585
50	220	302.5	544.4	-0.197	-0.173	12.850	11.322	-5.7763E-05	-6.0913E-05	0.503
51	406	311.8	561.3	0.386	0.340	12.708	11.197	1.1474E-04	1.2108E-04	-0.318
52	407	310.9	559.7	0.354	0.312	12.721	11.209	1.0514E-04	1.1094E-04	-0.563
53	408	309.8	557.7	0.710	0.625	12.738	11.224	2.1045E-04	2.2204E-04	-0.016
54	409	309.9	557.9	0.677	0.596	12.736	11.222	2.0080E-04	2.1186E-04	-0.104
55	410	309.4	556.9	0.606	0.534	12.744	11.229	1.7970E-04	1.8959E-04	-0.055
56	411	308.7	555.7	0.530	0.467	12.755	11.239	1.5712E-04	1.6576E-04	0.037
57	412	307.6	553.7	0.342	0.301	12.772	11.254	1.0102E-04	1.0657E-04	0.273
58	413	306.8	552.3	0.194	0.171	12.784	11.264	5.7188E-05	6.0325E-05	0.422
59	414	305.6	550.1	-0.023	-0.021	12.802	11.280	-6.8925E-06	-7.2700E-06	-0.369
60	415	304.8	548.7	-0.102	-0.089	12.814	11.291	-2.9915E-05	-3.1552E-05	0.214
61	416	303.9	547.1	-0.150	-0.132	12.827	11.303	-4.4251E-05	-4.6669E-05	0.336
62	417	303.1	545.6	-0.192	-0.169	12.840	11.314	-5.6533E-05	-5.9619E-05	0.298
63	418	302.5	544.5	-0.263	-0.231	12.849	11.322	-7.7172E-05	-8.1382E-05	0.220
64	419	301.5	542.7	-0.343	-0.302	12.864	11.335	-1.0057E-04	-1.0605E-04	0.376
65	420	302.3	544.2	-0.038	-0.033	12.851	11.324	-1.1164E-05	-1.1773E-05	0.608
66	506	311.0	559.8	0.572	0.504	12.720	11.208	1.6988E-04	1.7925E-04	C.C03
67	507	310.8	559.5	0.588	0.518	12.723	11.211	1.7460E-04	1.8423E-04	-C.C06
68	508	310.1	558.1	0.671	0.591	12.734	11.220	1.9903E-04	2.1000E-04	-0.084
69	509	309.6	557.3	0.654	0.576	12.741	11.227	1.9386E-04	2.0453E-04	-0.156
70	510	309.1	556.4	0.600	0.529	12.748	11.233	1.7782E-04	1.8761E-04	-0.117
71	511	309.3	556.8	0.544	0.479	12.746	11.231	1.6123E-04	1.7011E-04	-C.072
72	512	308.1	554.6	0.377	0.332	12.764	11.246	1.1154E-04	1.1766E-04	0.120
73	513	307.4	553.4	0.229	0.202	12.774	11.256	6.7667E-05	7.1383E-05	0.403
74	514	306.8	552.5	0.105	0.C04	12.749	11.277	1.4536E-06	1.5333E-06	2.088
75	515	304.7	548.5	-0.126	-0.111	12.815	11.292	-1.6987E-05	-3.9010E-05	C.322

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7205E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.288	7.838	8.294
PT2/PT1	5.443E-02	5.028E-02	5.320E-02
TEMP(DEG R)	2097.1	610.2	2172.9
TT2/TT1	1.0176	0.2961	1.0544

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 21 FRAME 26 TO 51 CONSTANT SET 681

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5531E 06	75.60	1903.09	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.420	1902.562	0.104	0.149	610.200	-0.285	11.6942
0.070	75.420	1903.094	0.104	0.149	610.200	-0.272	17.6160
0.140	75.602	1903.630	0.104	0.160	610.200	-0.272	17.6200
0.210	75.602	1902.561	0.101	0.261	610.200	-0.259	17.6079
0.280	75.602	1902.829	0.112	0.663	610.200	-0.272	17.6119
0.350	75.602	1902.695	0.193	1.451	610.200	-0.285	17.6119
0.420	75.420	1902.829	0.728	2.167	610.200	-0.272	17.5756
0.490	75.602	1903.495	1.788	2.765	610.200	-0.272	17.6200
0.560	75.785	1902.960	2.773	3.304	610.200	-0.259	17.6079
0.630	75.602	1902.427	3.274	3.595	610.200	-0.272	17.6119
0.700	75.602	1902.427	3.548	3.679	610.200	-0.285	17.6119
0.770	75.602	1902.561	3.720	3.654	610.200	-0.285	17.6200
0.840	75.602	1903.628	3.788	3.542	610.200	-0.272	22.5857
0.910	75.602	1903.093	3.778	3.436	610.200	-0.259	34.9294
0.980	75.602	1902.561	3.762	3.410	610.200	-0.272	34.9334
1.050	75.420	1902.695	3.749	3.444	610.200	-0.285	34.9334
1.120	75.602	1902.561	3.735	3.497	610.200	-0.298	34.9415
1.190	75.602	1903.360	3.730	3.542	610.200	-0.285	34.9375
1.260	75.602	1903.094	3.727	3.575	610.200	-0.285	34.9294
1.330	75.602	1902.561	3.738	3.584	610.200	-0.272	34.9334
1.400	75.602	1902.561	3.754	3.612	610.200	-0.285	34.9334
1.470	75.420	1903.228	3.759	3.640	610.200	-0.285	34.9375
1.540	75.602	1903.762	3.754	3.662	610.200	-0.285	34.9375
1.610	75.602	1903.495	3.751	3.667	610.200	-0.272	34.9294
1.680	75.602	1902.561	3.751	3.667	610.200	-0.285	34.9294
1.750	75.420	1902.694	3.756	3.684	610.200	-0.298	34.9334

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.8147E 06	5.5311E 05	0.305	5.14	1057.3	0.11108E 07	0.3048	1.000	RUN NO.	21
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.5311E 05	5.5311E 05	1.000	75.60	1903.1	477.67	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.271	0.0890	0.0890	0.1019	0.1076	39	208	0.275	0.0728	0.0728	0.0834	0.0882
2	7	0.306	0.0000	0.0000	0.0000	0.0000	40	210	0.274	0.0651	0.0651	0.0746	0.0788
3	8	0.272	0.0788	0.0788	0.0902	0.0953	41	211	0.273	0.0583	0.0583	0.0668	0.0705
4	9	0.272	0.0769	0.0769	0.0880	0.0930	42	212	0.273	0.0440	0.0440	0.0503	0.0532
5	10	0.272	0.0763	0.0763	0.0874	0.0923	43	213	0.306	0.0000	0.0000	0.0000	0.0000
6	11	0.272	0.0746	0.0746	0.0854	0.0902	44	214	0.306	0.0000	0.0000	0.0000	0.0000
7	12	0.272	0.0756	0.0756	0.0866	0.0915	45	215	0.271	0.0025	0.0025	0.0029	0.0030
8	13	0.272	0.0754	0.0754	0.0863	0.0912	46	216	0.271	0.0006	0.0006	0.0007	0.0007
9	14	0.272	0.0772	0.0772	0.0884	0.0934	47	217	0.270	-0.0000	-0.0000	-0.0000	-0.0000
10	15	0.272	0.0743	0.0743	0.0851	0.0899	48	218	0.270	-0.0004	-0.0004	-0.0005	-0.0005
11	16	0.273	0.0737	0.0737	0.0843	0.0891	49	219	0.270	-0.0018	-0.0018	-0.0020	-0.0021
12	17	0.273	0.0749	0.0749	0.0858	0.0907	50	220	0.270	-0.0023	-0.0023	-0.0027	-0.0028
13	18	0.274	0.0733	0.0733	0.0840	0.0887	51	406	0.274	0.0523	0.0523	0.0599	0.0633
14	19	0.274	0.0712	0.0712	0.0816	0.0862	52	407	0.274	0.0549	0.0549	0.0629	0.0665
15	20	0.274	0.0732	0.0732	0.0838	0.0886	53	408	0.273	0.0586	0.0586	0.0671	0.0709
16	21	0.275	0.0783	0.0783	0.0896	0.0947	54	409	0.274	0.0561	0.0561	0.0642	0.0678
17	22	0.274	0.0817	0.0817	0.0936	0.0989	55	410	0.273	0.0498	0.0498	0.0570	0.0603
18	23	0.275	0.0845	0.0845	0.0968	0.1023	56	411	0.273	0.0443	0.0443	0.0507	0.0536
19	24	0.275	0.0881	0.0881	0.1009	0.1067	57	412	0.272	0.0287	0.0287	0.0329	0.0347
20	25	0.274	0.0867	0.0867	0.0993	0.1049	58	413	0.272	0.0185	0.0185	0.0212	0.0224
21	103	0.277	0.0799	0.0799	0.0915	0.0967	59	414	0.271	0.0043	0.0043	0.0049	0.0052
22	105	0.278	0.0796	0.0796	0.0912	0.0964	60	415	0.271	-0.0017	-0.0017	-0.0019	-0.0020
23	107	0.277	0.0797	0.0797	0.0914	0.0966	61	416	0.270	-0.0034	-0.0034	-0.0039	-0.0042
24	108	0.277	0.0762	0.0762	0.0873	0.0922	62	417	0.270	-0.0046	-0.0046	-0.0053	-0.0056
25	110	0.276	0.0623	0.0623	0.0713	0.0754	63	418	0.269	-0.0079	-0.0079	-0.0090	-0.0095
26	111	0.275	0.0528	0.0528	0.0605	0.0639	64	419	0.268	-0.0117	-0.0117	-0.0133	-0.0141
27	112	0.275	0.0363	0.0363	0.0416	0.0439	65	420	0.270	-0.0009	-0.0009	-0.0010	-0.0011
28	113	0.274	0.0222	0.0222	0.0254	0.0268	66	506	0.274	0.0466	0.0466	0.0534	0.0564
29	114	0.273	0.0067	0.0067	0.0077	0.0081	67	507	0.274	0.0496	0.0496	0.0568	0.0601
30	115	0.272	0.0017	0.0017	0.0019	0.0021	68	508	0.274	0.0560	0.0560	0.0641	0.0678
31	116	0.272	0.0000	0.0000	0.0000	0.0000	69	509	0.273	0.0549	0.0549	0.0628	0.0664
32	117	0.271	0.0001	0.0001	0.0001	0.0001	70	510	0.273	0.0505	0.0505	0.0578	0.0611
33	118	0.271	-0.0002	-0.0002	-0.0002	-0.0002	71	511	0.273	0.0471	0.0471	0.0539	0.0569
34	119	0.271	-0.0000	-0.0000	-0.0000	-0.0000	72	512	0.273	0.0389	0.0389	0.0446	0.0471
35	120	0.270	-0.0002	-0.0002	-0.0002	-0.0002	73	513	0.272	0.0245	0.0245	0.0280	0.0296
36	203	0.275	0.0726	0.0726	0.0831	0.0879	74	514	0.272	0.0058	0.0058	0.0066	0.0070
37	205	0.276	0.0720	0.0720	0.0824	0.0871	75	515	0.271	-0.0041	-0.0041	-0.0047	-0.0049
38	207	0.276	0.0721	0.0721	0.0826	0.0873							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.8147E 06	5.5311E 05	0.305	5.14	1057.3	0.11108E 07	0.3048	1.CCC	RUN NO.	21
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.5311E 05	5.5311E 05	1.000	75.60	1903.1	477.67	1.0000	1.C00		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	300.1	540.2	0.710	0.626	7.979	7.030	4.57C0E-04	4.8278E-04	C.283
2	7	338.7	609.7	0.000	0.C00	7.574	6.674	1.5245E-15	1.6158E-15	*******
3	8	300.4	540.7	0.629	0.554	7.975	7.027	4.0472E-04	4.2756E-04	0.252
4	9	300.4	540.7	0.613	0.540	7.975	7.027	3.9462E-04	4.1690E-C4	0.243
5	10	300.5	540.9	0.609	0.536	7.974	7.026	3.9189E-04	4.1401E-04	0.235
6	11	300.7	541.3	0.594	0.524	7.972	7.024	3.8281E-04	4.0442E-C4	0.235
7	12	301.0	541.8	0.603	0.531	7.969	7.022	3.8836E-04	4.1030E-C4	0.233
8	13	301.2	542.1	0.601	0.529	7.968	7.020	3.8697E-04	4.0884E-04	0.236
9	14	301.4	542.5	0.615	0.542	7.965	7.018	3.9655E-04	4.1897E-04	C.220
10	15	301.4	542.4	0.592	0.522	7.965	7.019	3.8148E-04	4.0304E-C4	0.198
11	16	301.4	542.5	0.587	0.517	7.965	7.018	3.7819E-04	3.9957E-C4	0.198
12	17	302.2	543.9	0.596	0.525	7.957	7.011	3.8475E-04	4.0652E-C4	0.249
13	18	303.2	545.8	0.583	0.513	7.946	7.002	3.7657E-04	3.9791E-04	0.235
14	19	303.6	546.5	0.566	0.498	7.942	6.998	3.6579E-04	3.8654E-C4	0.252
15	20	303.5	546.3	0.581	0.512	7.943	6.999	3.7587E-04	3.9718E-C4	0.263
16	21	303.7	546.6	0.622	0.548	7.941	6.997	4.0194E-04	4.2474E-04	0.272
17	22	303.6	546.5	0.649	0.572	7.942	6.998	4.1969E-04	4.4350E-04	0.282
18	23	303.6	546.5	0.671	0.592	7.942	6.998	4.3408E-04	4.5870E-C4	0.296
19	24	304.1	547.4	0.699	0.616	7.937	6.993	4.5254E-C4	4.7822E-C4	0.316
20	25	303.3	545.9	0.689	0.607	7.945	7.001	4.4532E-04	4.7056E-04	0.303
21	103	306.1	551.0	0.632	0.557	7.916	6.975	4.1031E-04	4.3367E-04	0.287
22	105	307.0	552.6	0.629	0.555	7.906	6.966	4.0902E-04	4.3234E-C4	0.291
23	107	306.7	552.1	0.631	0.556	7.909	6.969	4.0965E-04	4.3300E-04	0.291
24	108	306.0	550.8	0.603	0.531	7.917	6.976	3.9118E-04	4.1345E-04	0.219
25	110	305.0	549.0	0.494	0.435	7.927	6.985	3.1983E-04	3.3801E-04	0.142
26	111	304.7	548.4	0.419	0.369	7.930	6.988	2.7127E-04	2.8668E-04	0.188
27	112	303.9	547.0	0.288	0.254	7.939	6.995	1.8639E-04	1.9697E-04	0.326
28	113	303.2	545.7	0.176	0.155	7.946	7.002	1.1389E-04	1.2034E-04	C.408
29	114	302.1	543.9	0.053	0.047	7.957	7.011	3.4406E-05	3.6353E-05	0.371
30	115	301.1	542.1	0.014	0.012	7.968	7.021	8.7350E-06	9.2286E-06	0.157
31	116	300.5	540.9	0.000	0.C00	7.975	7.027	5.1627E-08	5.4541E-08	-76.604
32	117	299.9	539.8	0.000	0.C00	7.981	7.032	2.5903E-07	2.7364E-07	-5.438
33	118	299.7	539.4	-0.001	-0.001	7.983	7.034	-9.2386E-07	-9.7594E-07	2.121
34	119	299.3	538.8	-0.000	-0.C00	7.987	7.038	-9.8684E-08	-1.0425E-07	9.635
35	120	298.8	537.9	-0.001	-0.C01	7.992	7.042	-9.3653E-07	-9.8926E-07	0.101
36	203	304.4	547.9	0.576	0.507	7.934	6.991	3.7281E-04	3.9398E-04	0.263
37	205	304.9	548.8	0.571	0.503	7.928	6.986	3.6956E-04	3.9056E-04	0.269
38	207	304.7	548.5	0.572	0.504	7.930	6.987	3.7019E-04	3.9122E-C4	0.285
39	208	304.3	547.7	0.578	0.509	7.935	6.992	3.7403E-04	3.9526E-04	0.239
40	210	303.4	546.1	0.517	0.456	7.944	7.000	3.3450E-04	3.5347E-04	0.140
41	211	301.9	543.5	0.464	0.409	7.959	7.013	2.9937E-04	3.1631E-04	0.198
42	212	301.6	542.9	0.350	0.308	7.963	7.016	2.2574E-04	2.3850E-04	0.313
43	213	338.7	609.7	0.000	0.C00	7.574	6.674	1.1813E-15	1.2520E-15	*******
44	214	338.7	609.6	0.000	0.C00	7.575	6.674	1.6207E-07	1.7177E-07	1.790
45	215	299.6	539.2	0.020	0.018	7.984	7.035	1.2936E-05	1.3665E-C5	0.447
46	216	299.3	538.7	0.005	0.C04	7.987	7.038	3.0270E-C6	3.1975E-C6	0.768
47	217	298.9	538.0	-0.000	-0.C00	7.991	7.041	-2.0586E-07	-2.1746E-07	-9.952
48	218	298.6	537.6	-0.003	-0.C03	7.994	7.044	-2.0203E-06	-2.1340E-06	-0.462
49	219	298.4	537.2	-0.014	-0.013	7.996	7.046	-9.1145E-06	-9.6274E-06	0.339
50	220	298.1	536.6	-0.C19	-0.016	8.000	7.049	-1.1961E-C5	-1.2634E-C5	0.212
51	406	303.4	546.2	0.416	0.366	7.944	6.999	2.6867E-04	2.8390E-04	0.171
52	407	303.0	545.4	0.437	0.385	7.948	7.004	2.8208E-04	2.9807E-04	0.151
53	408	302.4	544.3	0.466	0.411	7.954	7.009	3.0078E-04	3.1781E-04	0.098
54	409	302.5	544.5	0.446	0.393	7.953	7.008	2.8791E-04	3.0421E-C4	0.043
55	410	302.3	544.1	0.396	0.349	7.956	7.010	2.5579E-04	2.7027E-04	0.073
56	411	301.9	543.5	0.353	0.311	7.959	7.013	2.2758E-04	2.4045E-04	0.157
57	412	301.2	542.2	0.229	0.202	7.967	7.020	1.4738E-04	1.5571E-04	C.300
58	413	300.8	541.5	0.147	0.130	7.971	7.023	9.4996E-05	1.0036E-04	0.403
59	414	300.0	540.1	0.034	0.030	7.979	7.031	2.2080E-05	2.3325E-C5	0.810
60	415	299.7	539.4	-0.013	-0.012	7.983	7.034	-8.5210E-06	-9.0014E-06	-C.648
61	416	299.0	538.3	-0.027	-0.024	7.990	7.040	-1.7647E-05	-1.8641E-05	-0.287
62	417	298.5	537.3	-0.037	-0.032	7.995	7.045	-2.3639E-05	-2.4969E-C5	-0.459
63	418	297.7	535.9	-0.063	-0.056	8.004	7.052	-4.0434E-05	-4.2707E-05	-0.207
64	419	296.8	534.3	-0.093	-0.082	8.013	7.061	-5.9870E-05	-6.3231E-05	C.137
65	420	298.2	536.7	-0.007	-0.006	7.999	7.048	-4.6662E-06	-4.9287E-C6	-C.618
66	506	302.9	545.3	0.371	0.327	7.949	7.004	2.3943E-04	2.5300E-C4	0.119
67	507	302.8	545.0	0.345	0.348	7.951	7.006	2.5496E-04	2.6933E-04	C.130
68	508	302.6	544.6	0.445	0.392	7.953	7.008	2.8760E-04	3.0388E-04	C.113
69	509	302.2	544.0	0.436	0.385	7.956	7.011	2.8167E-04	2.9761E-04	C.080
70	510	301.8	543.2	0.402	0.354	7.961	7.015	2.5937E-04	2.7404E-C4	0.099
71	511	302.1	543.7	0.375	0.330	7.958	7.012	2.4168E-04	2.5535E-04	C.134
72	512	301.6	542.9	0.310	0.273	7.963	7.016	1.9984E-04	2.1114E-04	C.422
73	513	301.1	542.0	0.195	0.172	7.968	7.021	1.2577E-04	1.3288E-C4	C.501
74	514	300.3	540.6	0.046	0.041	7.976	7.028	2.9584E-C5	3.1254E-C5	0.613
75	515	299.6	539.3	-0.032	-0.029	7.984	7.035	-2.0887E-05	-2.2065E-05	C.343

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3997E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MCFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.893	3.756	3.684
PT2/PT1	5.149E-02	4.969E-02	4.873E-02
TEMP(DEG R)	1946.5	616.2	1974.9
TT2/TT1	1.0228	0.3206	1.0377

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 22 FRAME 25 TO 52 CONSTANT SET 681

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9320E 06		149.61	2093.82	1.CCOO

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	149.607	2094.331	0.156	0.176	610.200	-0.278	17.5779
0.070	149.607	2093.818	0.154	0.176	610.200	-0.304	17.6102
0.140	149.607	2094.075	0.151	0.215	610.200	-0.291	17.6182
0.210	149.607	2094.715	0.151	0.498	610.200	-0.291	17.6142
0.280	150.172	2094.587	0.177	1.548	610.200	-0.291	17.6021
0.350	149.607	2093.431	0.530	3.214	610.200	-0.291	17.5981
0.420	149.607	2093.817	2.015	4.636	610.200	-0.304	17.5981
0.490	149.607	2093.946	4.298	6.126	610.200	-0.291	17.6142
0.560	149.607	2094.716	6.008	7.190	610.200	-0.304	17.6142
0.630	149.607	2093.818	7.021	7.618	610.200	-0.304	17.6102
0.700	149.607	2093.690	7.585	7.646	610.200	-0.291	17.6061
0.770	149.607	2093.818	7.821	7.598	610.200	-0.317	34.3531
0.840	149.607	2093.689	7.842	7.607	610.200	-0.291	34.9178
0.910	149.607	2093.819	7.771	7.694	610.200	-0.304	34.9299
0.980	150.172	2093.690	7.718	7.825	610.200	-0.291	34.9259
1.050	150.172	2093.433	7.710	7.940	610.200	-0.291	34.9259
1.120	149.607	2093.433	7.718	8.041	610.200	-0.291	34.9259
1.190	149.607	2093.304	7.728	8.108	610.200	-0.304	34.9340
1.260	149.607	2093.689	7.739	8.142	610.200	-0.304	34.9340
1.330	150.172	2093.432	7.744	8.184	610.200	-0.291	34.9259
1.400	149.607	2092.918	7.731	8.217	610.200	-0.291	34.9259
1.470	149.607	2092.790	7.718	8.254	610.200	-0.304	34.9259
1.540	149.607	2092.919	7.710	8.304	610.200	-0.304	34.9340
1.610	149.607	2093.047	7.702	8.349	610.200	-0.304	34.9340
1.680	149.607	2093.816	7.691	8.388	610.200	-0.291	34.9259
1.750	149.607	2092.405	7.713	8.410	610.200	-0.291	34.9259
1.820	149.607	2092.276	7.734	8.422	610.200	-0.291	34.9259
1.890	149.607	2092.790	7.742	8.422	610.200	-0.304	34.9340

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.0576E 06	9.3196E 05	0.305	10.18	1163.2	0.12333E 07	0.3048	1.000	RUN NO. 22
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.3196E 05	9.3196E 05	1.000	149.61	2093.8	530.36	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.248	0.2638	0.2638	0.3005	0.3168	39	208	0.253	0.0714	0.0714	0.0815	0.0859
2	7	0.276	0.0000	0.0000	0.0000	0.0000	40	210	0.252	0.0723	0.0723	0.0825	0.0870
3	8	0.248	0.2519	0.2519	0.2870	0.3026	41	211	0.250	0.0738	0.0738	0.0842	0.0887
4	9	0.248	0.2377	0.2377	0.2709	0.2856	42	212	0.250	0.0639	0.0639	0.0728	0.0768
5	10	0.248	0.2149	0.2149	0.2448	0.2582	43	213	0.276	0.0000	0.0000	0.0000	0.0000
6	11	0.249	0.1763	0.1763	0.2009	0.2118	44	214	0.276	-0.0000	-0.0000	-0.0000	-0.0000
7	12	0.249	0.1442	0.1442	0.1643	0.1733	45	215	0.247	0.0077	0.0077	0.0088	0.0092
8	13	0.249	0.1166	0.1166	0.1329	0.1401	46	216	0.247	-0.0004	-0.0004	-0.0005	-0.0005
9	14	0.249	0.1069	0.1069	0.1218	0.1284	47	217	0.246	-0.0071	-0.0071	-0.0081	-0.0085
10	15	0.250	0.1025	0.1025	0.1168	0.1232	48	218	0.246	-0.0084	-0.0084	-0.0095	-0.0101
11	16	0.250	0.1005	0.1005	0.1146	0.1208	49	219	0.246	-0.0135	-0.0135	-0.0153	-0.0162
12	17	0.251	0.0839	0.0839	0.0956	0.1008	50	220	0.245	-0.0149	-0.0149	-0.0170	-0.0179
13	18	0.252	0.0678	0.0678	0.0773	0.0816	51	406	0.252	0.0307	0.0307	0.0350	0.0369
14	19	0.253	0.0703	0.0703	0.0802	0.0845	52	407	0.252	0.0315	0.0315	0.0359	0.0378
15	20	0.253	0.0728	0.0728	0.0830	0.0876	53	408	0.251	0.0618	0.0618	0.0705	0.0743
16	21	0.253	0.0773	0.0773	0.0881	0.0930	54	409	0.251	0.0607	0.0607	0.0692	0.0730
17	22	0.253	0.0783	0.0783	0.0893	0.0942	55	410	0.251	0.0560	0.0560	0.0639	0.0674
18	23	0.253	0.0785	0.0785	0.0896	0.0945	56	411	0.250	0.0525	0.0525	0.0599	0.0631
19	24	0.253	0.0793	0.0793	0.0905	0.0954	57	412	0.249	0.0393	0.0393	0.0448	0.0473
20	25	0.252	0.0764	0.0764	0.0871	0.0919	58	413	0.249	0.0284	0.0284	0.0323	0.0341
21	103	0.256	0.0705	0.0705	0.0804	0.0848	59	414	0.248	0.0107	0.0107	0.0121	0.0128
22	105	0.257	0.0702	0.0702	0.0801	0.0845	60	415	0.247	0.0004	0.0004	0.0004	0.0004
23	107	0.257	0.0705	0.0705	0.0805	0.0849	61	416	0.247	-0.0052	-0.0052	-0.0059	-0.0063
24	108	0.256	0.0674	0.0674	0.0769	0.0811	62	417	0.246	-0.0099	-0.0099	-0.0112	-0.0118
25	110	0.255	0.0558	0.0558	0.0636	0.0671	63	418	0.245	-0.0147	-0.0147	-0.0168	-0.0177
26	111	0.254	0.0481	0.0481	0.0549	0.0579	64	419	0.245	-0.0209	-0.0209	-0.0238	-0.0251
27	112	0.253	0.0349	0.0349	0.0398	0.0420	65	420	0.245	-0.0014	-0.0014	-0.0016	-0.0017
28	113	0.252	0.0225	0.0225	0.0256	0.0270	66	506	0.251	0.0421	0.0421	0.0481	0.0507
29	114	0.251	0.0072	0.0072	0.0082	0.0086	67	507	0.251	0.0486	0.0486	0.0554	0.0585
30	115	0.250	0.0007	0.0007	0.0008	0.0009	68	508	0.251	0.0542	0.0542	0.0618	0.0652
31	116	0.249	-0.0009	-0.0009	-0.0010	-0.0010	69	509	0.251	0.0512	0.0512	0.0584	0.0616
32	117	0.248	-0.0022	-0.0022	-0.0025	-0.0026	70	510	0.250	0.0469	0.0469	0.0535	0.0564
33	118	0.248	-0.0022	-0.0022	-0.0025	-0.0026	71	511	0.251	0.0431	0.0431	0.0491	0.0518
34	119	0.247	-0.0017	-0.0017	-0.0020	-0.0021	72	512	0.250	0.0346	0.0346	0.0394	0.0416
35	120	0.246	-0.0013	-0.0013	-0.0015	-0.0016	73	513	0.249	0.0218	0.0218	0.0249	0.0262
36	203	0.253	0.0654	0.0654	0.0746	0.0786	74	514	0.248	0.0070	0.0070	0.0080	0.0085
37	205	0.254	0.0637	0.0637	0.0726	0.0766	75	515	0.247	-0.0010	-0.0010	-0.0012	-0.0013
38	207	0.254	0.0658	0.0658	0.0751	0.0792							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.0576E 06	9.3196E 05	0.305	10.18	1163.2	0.12333E 07	0.3048	1.000	RUN NO. 22
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.3196E 05	9.3196E 05	1.000	149.61	2093.8	530.36	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	304.1	547.5	3.391	2.988	12.856	11.328	1.0280E-03	1.0838E-03	0.380
2	7	338.7	609.7	0.000	0.000	12.343	10.876	3.6547E-16	3.9047E-16	*******
3	8	304.7	548.5	3.236	2.852	12.848	11.320	9.8181E-04	1.0351E-03	0.385
4	9	304.9	548.7	3.054	2.691	12.845	11.318	9.2665E-04	9.7701E-04	0.378
5	10	305.1	549.1	2.760	2.431	12.842	11.316	8.3756E-04	8.8308E-04	0.367
6	11	305.4	549.8	2.263	1.994	12.836	11.311	6.8710E-04	7.2446E-04	0.338
7	12	305.8	550.4	1.850	1.630	12.831	11.306	5.6210E-04	5.9268E-04	C.307
8	13	306.2	551.2	1.495	1.318	12.825	11.301	4.5454E-04	4.7928E-04	C.287
9	14	306.4	551.5	1.371	1.208	12.823	11.299	4.1665E-04	4.3934E-04	0.264
10	15	306.4	551.6	1.314	1.158	12.822	11.298	3.9958E-04	4.2134E-04	C.280
11	16	306.7	552.1	1.289	1.135	12.818	11.294	3.9189E-04	4.1323E-04	C.282
12	17	308.1	554.5	1.073	0.946	12.797	11.276	3.2701E-04	3.4486E-04	C.276
13	18	309.9	557.8	0.866	0.763	12.770	11.252	2.6445E-04	2.7891E-04	0.175
14	19	310.4	558.6	0.897	0.791	12.763	11.246	2.7410E-04	2.8910E-04	0.184
15	20	310.3	558.6	0.929	0.819	12.764	11.247	2.8392E-04	2.9945E-04	0.202
16	21	310.7	559.2	0.986	0.869	12.759	11.242	3.0134E-04	3.1784E-04	0.226
17	22	310.6	559.1	0.999	0.881	12.760	11.243	3.0543E-04	3.2215E-04	0.231
18	23	310.6	559.0	1.002	0.883	12.760	11.243	3.0621E-04	3.2297E-04	0.227
19	24	310.9	559.6	1.012	0.891	12.755	11.239	3.0929E-04	3.2623E-04	C.233
20	25	309.5	557.1	0.976	0.860	12.776	11.258	2.9796E-04	3.1425E-04	C.213
21	103	313.9	565.1	0.896	0.789	12.710	11.199	2.7482E-04	2.8993E-04	0.200
22	105	315.4	567.7	0.891	0.785	12.689	11.180	2.7378E-04	2.8886E-04	0.199
23	107	315.0	567.1	0.895	0.789	12.694	11.185	2.7511E-04	2.9025E-04	C.207
24	108	314.0	565.2	0.856	0.754	12.709	11.199	2.6276E-04	2.7721E-04	0.123
25	110	312.7	562.9	0.710	0.626	12.728	11.215	2.1753E-04	2.2947E-04	0.024
26	111	312.2	561.9	0.613	0.540	12.736	11.222	1.8763E-04	1.9792E-04	C.069
27	112	311.0	559.8	0.445	0.392	12.754	11.238	1.3618E-04	1.4364E-04	C.234
28	113	310.0	558.0	0.287	0.253	12.769	11.251	8.7668E-05	9.2464E-05	0.335
29	114	308.4	555.1	0.092	0.081	12.792	11.272	2.7904E-05	2.9428E-05	0.357
30	115	306.9	552.4	0.009	0.008	12.815	11.291	2.8260E-06	2.9800E-06	-0.728
31	116	305.7	550.3	-0.011	-0.010	12.832	11.307	-3.3633E-06	-3.5463E-06	1.390
32	117	304.8	548.6	-0.028	-0.025	12.846	11.319	-8.5025E-06	-8.9645E-06	0.895
33	118	304.2	547.5	-0.028	-0.025	12.856	11.328	-8.4903E-06	-8.9512E-06	0.795
34	119	303.5	546.2	-0.022	-0.020	12.866	11.337	-6.8105E-06	-7.1799E-06	0.790
35	120	302.6	544.7	-0.017	-0.015	12.879	11.348	-5.0487E-06	-5.3222E-06	0.749
36	203	311.1	560.0	0.834	0.735	12.752	11.236	2.5493E-04	2.6890E-04	0.163
37	205	311.9	561.5	0.811	0.715	12.740	11.226	2.4825E-04	2.6186E-04	0.158
38	207	311.7	561.1	0.839	0.739	12.743	11.228	2.5663E-04	2.7070E-04	0.192
39	208	311.0	559.8	0.911	0.803	12.756	11.238	2.7858E-04	2.9384E-04	0.148
40	210	309.9	557.7	0.924	0.814	12.771	11.253	2.8202E-04	2.9744E-04	-0.007
41	211	307.2	552.9	0.946	0.833	12.811	11.288	2.8784E-04	3.0353E-04	0.069
42	212	306.8	552.2	0.819	0.721	12.817	11.293	2.4896E-04	2.6252E-04	0.169
43	213	338.7	609.7	0.000	0.000	12.343	10.875	7.1198E-16	7.5245E-16	*******
44	214	338.7	609.6	-0.000	-0.000	12.343	10.876	-1.5084E-07	-1.5942E-07	0.975
45	215	303.7	546.6	0.099	0.087	12.863	11.334	2.9967E-05	3.1593E-05	-0.188
46	216	302.9	545.3	-0.005	-0.005	12.874	11.344	-1.6149E-06	-1.7025E-06	10.193
47	217	302.5	544.4	-0.091	-0.080	12.881	11.350	-2.7570E-05	-2.9063E-05	0.921
48	218	302.0	543.6	-0.108	-0.095	12.888	11.356	-3.2649E-05	-3.4416E-05	0.774
49	219	301.6	542.9	-0.173	-0.153	12.893	11.361	-5.2434E-05	-5.5271E-05	0.643
50	220	301.1	542.0	-0.193	-0.170	12.901	11.368	-5.8229E-05	-6.1378E-05	C.600
51	406	309.9	557.8	0.392	0.345	12.770	11.252	1.1971E-04	1.2626E-04	-0.293
52	407	309.3	556.8	0.402	0.354	12.779	11.260	1.2265E-04	1.2935E-04	-0.509
53	408	308.1	554.6	0.791	0.697	12.796	11.275	2.4107E-04	2.5422E-04	0.033
54	409	308.3	554.9	0.777	0.684	12.794	11.274	2.3671E-04	2.4963E-04	-0.026
55	410	307.8	554.1	0.717	0.632	12.801	11.279	2.1843E-04	2.3034E-04	-0.007
56	411	307.2	553.0	0.673	0.593	12.810	11.288	2.0470E-04	2.1585E-04	0.080
57	412	306.1	551.0	0.505	0.445	12.826	11.302	1.5336E-04	1.6171E-04	0.234
58	413	305.5	549.9	0.364	0.321	12.836	11.310	1.1062E-04	1.1664E-04	0.298
59	414	304.4	547.9	0.137	0.121	12.852	11.325	4.1561E-05	4.3817E-05	0.353
60	415	303.7	546.7	0.005	0.004	12.862	11.333	1.3746E-06	1.4491E-06	1.776
61	416	302.8	545.1	-0.067	-0.059	12.875	11.345	-2.0293E-05	-2.1392E-05	C.280
62	417	302.1	543.8	-0.127	-0.112	12.886	11.354	-3.8444E-05	-4.0525E-05	0.244
63	418	301.4	542.6	-0.190	-0.168	12.896	11.363	-5.7464E-05	-6.0573E-05	0.144
64	419	300.5	540.9	-0.270	-0.238	12.910	11.375	-8.1544E-05	-8.5950E-05	0.341
65	420	301.0	541.7	-0.018	-0.016	12.903	11.370	-5.3713E-06	-5.6617E-06	-0.195
66	506	308.8	555.9	0.539	0.475	12.786	11.266	1.6432E-04	1.7330E-04	-C.037
67	507	308.7	555.7	0.622	0.548	12.788	11.268	1.8955E-04	1.9990E-04	-0.037
68	508	308.2	554.8	0.694	0.611	12.795	11.274	2.1144E-04	2.2298E-04	-C.046
69	509	307.8	554.1	0.656	0.578	12.801	11.280	1.9980E-04	2.1070E-04	-0.070
70	510	307.4	553.3	0.601	0.530	12.807	11.285	1.8303E-04	1.9301E-04	-0.036
71	511	307.7	553.8	0.552	0.486	12.803	11.281	1.6796E-04	1.7712E-04	-C.010
72	512	306.9	552.4	0.443	0.391	12.815	11.292	1.3481E-04	1.4217E-04	0.243
73	513	306.0	550.9	0.280	0.247	12.828	11.303	8.5078E-05	8.9708E-05	C.241
74	514	304.7	548.5	0.091	0.080	12.847	11.320	2.7466E-05	2.8958E-05	C.332
75	515	303.6	546.5	-0.013	-0.012	12.863	11.334	-4.0753E-06	-4.2963E-06	-1.357

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.5744E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.605	7.742	8.422
PT2/PT1	5.752E-02	5.175E-02	5.629E-02
TEMP(DEG R)	2147.5	610.2	2217.6
TT2/TT1	1.0256	0.2914	1.0591

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 23 FRAME 26 TO 51 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT
0.0	0.0	0.0	0 0 8 1	5.10	0.5196E 06

PT(PSI)	TT(DEG R)	RS(FT)
75.46	1973.25	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.085	1972.985	0.054	0.122	610.200	-0.286	17.6074
0.070	75.274	1973.639	0.088	0.125	610.200	-0.286	17.6155
0.140	75.274	1973.639	0.088	0.153	610.200	-0.273	17.6115
0.210	75.274	1972.853	0.088	0.374	610.200	-0.273	17.6074
0.280	75.274	1972.853	0.107	0.951	610.200	-0.273	17.6074
0.350	75.274	1972.853	0.348	1.799	610.200	-0.299	17.6115
0.420	75.274	1973.508	1.133	2.432	610.200	-0.286	17.6115
0.490	75.274	1973.639	2.263	3.059	610.200	-0.286	17.6115
0.560	75.462	1973.246	3.042	3.521	610.200	-0.273	17.6074
0.630	75.274	1972.853	3.413	3.705	610.200	-0.286	17.6115
0.700	75.274	1972.853	3.652	3.733	610.200	-0.286	17.6155
0.770	75.274	1973.509	3.784	3.613	610.200	-0.312	29.8527
0.840	75.274	1974.167	3.811	3.465	610.200	-0.286	34.9001
0.910	75.462	1973.246	3.784	3.397	610.200	-0.286	34.9243
0.980	75.274	1972.721	3.771	3.397	610.200	-0.299	34.9324
1.050	75.274	1972.853	3.758	3.448	610.200	-0.299	34.9365
1.120	75.274	1973.508	3.758	3.481	610.200	-0.286	34.9365
1.190	75.274	1974.298	3.758	3.521	610.200	-0.299	34.9365
1.260	75.462	1973.377	3.758	3.549	610.200	-0.286	34.9243
1.330	75.462	1972.721	3.758	3.565	610.200	-0.299	34.9284
1.400	75.274	1972.853	3.758	3.577	610.200	-0.312	34.9284
1.470	75.274	1973.377	3.758	3.582	610.200	-0.286	34.9365
1.540	75.274	1974.561	3.771	3.593	610.200	-0.286	34.9365
1.610	75.650	1973.377	3.774	3.613	610.200	-0.299	34.9243
1.680	75.274	1972.853	3.769	3.621	610.200	-0.286	34.9324
1.750	75.274	1973.118	3.769	3.641	610.200	-0.2[illegible]	34.9324

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7047E 06	5.1959E 05	0.305	5.13	1096.2	0.11556E 07	0.3048	1.000	RUN NO. 23
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.1959E 05	5.1959E 05	1.000	75.46	1973.2	496.95	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.268	0.0474	0.0474	0.0542	0.0572	39	214	0.294	0.0000	0.0000	0.0000	0.0000
2	17	0.294	0.0000	0.0000	0.0000	0.0000	40	215	0.267	0.0025	0.0025	0.0028	0.0030
3	18	0.269	0.0546	0.0546	0.0625	0.0660	41	216	0.266	0.0002	0.0002	0.0002	0.0002
4	19	0.269	0.0587	0.0587	0.0671	0.0709	42	217	0.266	0.0001	0.0001	0.0001	0.0001
5	20	0.270	0.0628	0.0628	0.0718	0.0759	43	218	0.265	0.0000	0.0000	0.0000	0.0000
6	21	0.270	0.0692	0.0692	0.0792	0.0836	44	219	0.265	0.0009	0.0009	0.0010	0.0010
7	22	0.270	0.0736	0.0736	0.0842	0.0889	45	220	0.265	0.0006	0.0006	0.0007	0.0008
8	23	0.270	0.0776	0.0776	0.0888	0.0938	46	406	0.270	0.0719	0.0719	0.0822	0.0868
9	24	0.270	0.0832	0.0832	0.0952	0.1006	47	407	0.270	0.0694	0.0694	0.0794	0.0839
10	25	0.270	0.0838	0.0838	0.0959	0.1013	48	408	0.269	0.0622	0.0622	0.0711	0.0751
11	41	0.266	0.0078	0.0078	0.0089	0.0094	49	409	0.269	0.0555	0.0555	0.0634	0.0670
12	42	0.267	0.0254	0.0254	0.0290	0.0307	50	410	0.268	0.0474	0.0474	0.0542	0.0573
13	43	0.268	0.0193	0.0193	0.0221	0.0234	51	411	0.268	0.0386	0.0386	0.0441	0.0466
14	44	0.269	0.0210	0.0210	0.0241	0.0254	52	412	0.267	0.0240	0.0240	0.0274	0.0290
15	45	0.269	0.0201	0.0201	0.0230	0.0243	53	413	0.267	0.0177	0.0177	0.0202	0.0213
16	46	0.269	0.0242	0.0242	0.0277	0.0293	54	414	0.267	0.0053	0.0053	0.0060	0.0063
17	47	0.269	0.0294	0.0294	0.0336	0.0355	55	415	0.266	0.0006	0.0006	0.0007	0.0008
18	48	0.269	0.0338	0.0338	0.0386	0.0408	56	416	0.266	0.0004	0.0004	0.0005	0.0005
19	49	0.269	0.0319	0.0319	0.0365	0.0385	57	417	0.265	-0.0002	-0.0002	-0.0002	-0.0002
20	50	0.269	0.0246	0.0246	0.0281	0.0297	58	418	0.265	-0.0001	-0.0001	-0.0001	-0.0001
21	103	0.273	0.0804	0.0804	0.0921	0.0973	59	419	0.265	-0.0010	-0.0010	-0.0012	-0.0013
22	105	0.273	0.0789	0.0789	0.0904	0.0955	60	420	0.265	-0.0011	-0.0011	-0.0013	-0.0014
23	107	0.273	0.0838	0.0838	0.0959	0.1014	61	506	0.269	0.0610	0.0610	0.0698	0.0738
24	108	0.272	0.0863	0.0863	0.0987	0.1043	62	507	0.269	0.0614	0.0614	0.0703	0.0742
25	110	0.272	0.0738	0.0738	0.0845	0.0893	63	508	0.268	0.0568	0.0568	0.0650	0.0686
26	111	0.271	0.0642	0.0642	0.0734	0.0776	64	509	0.267	0.0438	0.0438	0.0501	0.0529
27	112	0.271	0.0458	0.0458	0.0524	0.0554	65	510	0.268	0.0460	0.0460	0.0526	0.0556
28	113	0.270	0.0283	0.0283	0.0324	0.0342	66	511	0.268	0.0433	0.0433	0.0496	0.0523
29	114	0.269	0.0080	0.0080	0.0091	0.0096	67	512	0.267	0.0329	0.0329	0.0376	0.0397
30	115	0.268	0.0021	0.0021	0.0024	0.0025	68	513	0.267	0.0223	0.0223	0.0255	0.0269
31	203	0.271	0.0720	0.0720	0.0823	0.0870	69	514	0.267	0.0065	0.0065	0.0075	0.0079
32	205	0.271	0.0763	0.0763	0.0873	0.0922	70	515	0.266	0.0027	0.0027	0.0031	0.0033
33	207	0.271	0.0954	0.0954	0.1092	0.1153	71	516	0.266	0.0005	0.0005	0.0006	0.0006
34	208	0.271	0.0977	0.0977	0.1118	0.1181	72	517	0.266	0.0006	0.0006	0.0007	0.0007
35	210	0.270	0.0802	0.0802	0.0918	0.0969	73	518	0.266	0.0002	0.0002	0.0003	0.0003
36	211	0.270	0.0697	0.0697	0.0798	0.0843	74	519	0.265	-0.0009	-0.0009	-0.0011	-0.0011
37	212	0.269	0.0512	0.0512	0.0586	0.0619	75	520	0.265	-0.0032	-0.0032	-0.0037	-0.0039
38	213	0.294	0.0001	0.0001	0.0001	0.0001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7047E 06	5.1459E 05 0.305	5.13	1096.2	0.11556E 07	0.3048	1.000	RUN NO. 23
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.1959E 05	5.1959E 05 1.000	75.46	1973.2	496.95	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	16	308.0	554.4	0.395	0.348	8.330	7.340	2.4977E-04	2.6378E-04	0.056
2	17	338.7	609.7	0.000	0.000	8.008	7.056	1.2260E-15	1.2979E-15	*******
3	18	309.8	557.6	0.454	0.400	8.311	7.323	2.6785E-04	3.0404E-04	0.117
4	19	310.1	558.1	0.488	0.430	8.308	7.321	3.0931E-04	3.2671E-04	0.161
5	20	310.3	558.6	0.521	0.459	8.306	7.318	3.3091E-04	3.4953E-04	0.182
6	21	310.5	559.0	0.575	0.506	8.303	7.316	3.6472E-04	3.8524E-04	0.203
7	22	310.7	559.3	0.611	0.538	8.301	7.314	3.8769E-04	4.0952E-04	0.217
8	23	310.8	559.4	0.644	0.568	8.301	7.314	4.0913E-04	4.3217E-04	0.233
9	24	311.0	559.9	0.690	0.608	8.298	7.312	4.3849E-04	4.6318E-04	0.245
10	25	310.4	558.8	0.696	0.613	8.304	7.317	4.4177E-04	4.6662E-04	0.235
11	41	306.5	551.8	0.065	0.057	8.345	7.353	4.0893E-05	4.3182E-05	0.832
12	42	307.2	553.0	0.212	0.187	8.338	7.347	1.3377E-04	1.4126E-04	0.272
13	43	308.7	555.7	0.161	0.142	8.322	7.333	1.0192E-04	1.0764E-04	0.194
14	44	309.2	556.6	0.175	0.154	8.317	7.329	1.1082E-04	1.1704E-04	0.191
15	45	309.2	556.6	0.167	0.147	8.317	7.328	1.0589E-04	1.1183E-04	0.197
16	46	309.4	556.9	0.201	0.177	8.316	7.327	1.2764E-04	1.3481E-04	0.196
17	47	309.6	557.2	0.244	0.215	8.313	7.325	1.5492E-04	1.6363E-04	0.089
18	48	309.5	557.2	0.281	0.247	8.314	7.325	1.7804E-04	1.8805E-04	0.064
19	49	310.0	557.9	0.265	0.233	8.309	7.322	1.6759E-04	1.7743E-04	0.127
20	50	309.3	556.8	0.204	0.180	8.316	7.328	1.2941E-04	1.3668E-04	0.335
21	103	313.7	564.7	0.665	0.586	8.270	7.287	4.2410E-04	4.4807E-04	0.239
22	105	314.6	566.4	0.652	0.574	8.260	7.278	4.1621E-04	4.3978E-04	0.238
23	107	314.3	565.7	0.693	0.610	8.264	7.281	4.4188E-04	4.6688E-04	0.259
24	108	313.5	564.3	0.714	0.629	8.272	7.289	4.5480E-04	4.8050E-04	0.139
25	110	312.5	562.6	0.612	0.539	8.282	7.298	3.8929E-04	4.1127E-04	-0.023
26	111	312.2	561.9	0.532	0.468	8.286	7.301	3.3826E-04	3.5734E-04	0.047
27	112	311.3	560.3	0.380	0.335	8.295	7.309	2.4152E-04	2.5513E-04	0.271
28	113	310.6	559.1	0.235	0.207	8.303	7.316	1.4920E-04	1.5760E-04	0.419
29	114	309.5	557.1	0.066	0.058	8.314	7.326	4.1910E-05	4.4266E-05	0.439
30	115	308.4	555.2	0.017	0.015	8.325	7.336	1.0844E-05	1.1453E-05	0.357
31	203	311.6	560.9	0.597	0.526	8.292	7.306	3.7930E-04	4.0068E-04	0.210
32	205	312.2	562.0	0.632	0.557	8.286	7.301	4.0208E-04	4.2476E-04	0.240
33	207	312.0	561.6	0.791	0.697	8.288	7.303	5.0291E-04	5.3128E-04	0.246
34	208	311.5	560.6	0.810	0.714	8.293	7.308	5.1492E-04	5.4394E-04	0.163
35	210	310.6	559.1	0.666	0.587	8.302	7.315	4.2267E-04	4.4647E-04	0.031
36	211	310.3	558.5	0.579	0.510	8.306	7.318	3.6752E-04	3.8820E-04	0.094
37	212	309.6	557.3	0.426	0.375	8.313	7.325	2.6594E-04	2.8511E-04	0.257
38	213	338.7	609.7	0.000	0.000	8.008	7.056	3.1404E-07	3.3246E-07	1.303
39	214	338.7	609.7	0.000	0.000	8.008	7.056	1.0504E-07	1.1121E-07	2.297
40	215	307.5	553.5	0.021	0.018	8.335	7.344	1.2997E-05	1.3725E-05	-0.043
41	216	305.7	550.3	0.002	0.001	8.354	7.361	9.5169E-07	1.0049E-06	1.535
42	217	305.5	550.0	0.001	0.001	8.356	7.363	6.0084E-07	6.3441E-07	5.754
43	218	305.3	549.5	0.000	0.000	8.358	7.365	1.5059E-07	1.5942E-07	22.011
44	219	305.1	549.2	0.007	0.006	8.360	7.366	4.5525E-06	4.8067E-06	2.156
45	220	304.8	548.6	0.005	0.005	8.363	7.369	3.2877E-06	3.4712E-06	2.959
46	406	310.4	558.7	0.597	0.526	8.305	7.318	3.7877E-04	4.0009E-04	0.181
47	407	310.1	558.2	0.577	0.508	8.308	7.320	3.6583E-04	3.8641E-04	0.171
48	408	309.6	557.3	0.517	0.455	8.313	7.325	3.2763E-04	3.4605E-04	0.065
49	409	309.3	556.7	0.461	0.406	8.316	7.328	2.9229E-04	3.0871E-04	-0.020
50	410	308.9	556.0	0.395	0.348	8.320	7.331	2.4994E-04	2.6397E-04	-0.011
51	411	308.5	555.3	0.321	0.283	8.325	7.335	2.0332E-04	2.1473E-04	0.018
52	412	307.7	553.9	0.200	0.176	8.333	7.342	1.2648E-04	1.3357E-04	0.243
53	413	307.1	552.8	0.147	0.130	8.339	7.348	9.3155E-05	9.8372E-05	0.453
54	414	306.8	552.2	0.044	0.039	8.342	7.351	2.7686E-05	2.9236E-05	0.721
55	415	306.3	551.4	0.005	0.005	8.347	7.355	3.3086E-06	3.4937E-06	1.279
56	416	305.8	550.5	0.004	0.003	8.352	7.360	2.2562E-06	2.3823E-06	3.547
57	417	305.4	549.7	-0.001	-0.001	8.357	7.364	-8.0156E-07	-8.4634E-07	-4.685
58	418	305.2	549.3	-0.001	-0.001	8.359	7.366	-4.9962E-07	-5.2753E-07	-13.528
59	419	305.0	548.9	-0.009	-0.008	8.362	7.368	-5.4594E-06	-5.7643E-06	-1.675
60	420	304.8	548.7	-0.010	-0.008	8.363	7.369	-6.0093E-06	-6.3448E-06	-2.284
61	506	309.5	557.1	0.508	0.447	8.314	7.326	3.2170E-04	3.3978E-04	0.172
62	507	309.0	556.3	0.511	0.450	8.319	7.330	3.2377E-04	3.4195E-04	0.194
63	508	308.2	554.8	0.473	0.417	8.328	7.338	2.9931E-04	3.1610E-04	0.186
64	509	307.1	552.7	0.365	0.322	8.340	7.348	2.3086E-04	2.4379E-04	0.048
65	510	308.2	554.8	0.383	0.338	8.328	7.338	2.4243E-04	2.5603E-04	-0.001
66	511	308.0	554.4	0.361	0.318	8.330	7.340	2.2838E-04	2.4119E-04	0.050
67	512	307.6	553.8	0.274	0.241	8.334	7.343	1.7330E-04	1.8301E-04	0.272
68	513	307.3	553.2	0.186	0.164	8.337	7.346	1.1758E-04	1.2417E-04	0.397
69	514	306.7	552.1	0.055	0.048	8.343	7.352	3.4508E-05	3.6440E-05	0.542
70	515	306.0	550.8	0.023	0.020	8.351	7.358	1.4387E-05	1.5191E-05	1.009
71	516	306.1	550.9	0.004	0.004	8.350	7.358	2.6071E-06	2.7529E-06	1.659
72	517	305.7	550.3	0.003	0.004	8.354	7.361	3.2073E-06	3.3866E-06	1.993
73	518	305.5	549.9	0.002	0.002	8.356	7.363	1.2022E-06	1.2694E-06	4.684
74	519	305.2	549.4	-0.008	-0.007	8.359	7.365	-4.9592E-06	-5.2362E-06	-0.288
75	520	304.8	548.7	-0.027	-0.024	8.363	7.369	-1.7028E-05	-1.7979E-05	0.232

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3605E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.826	3.769	3.641
PT2/PT1	5.070E-02	4.994E-02	4.825E-02
TEMP(DEG R)	2007.7	610.2	2045.4
TT2/TT1	1.0174	0.3092	1.0366

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 24 FRAME 26 TO 51 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9897E 06		149.46	2019.52	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.463	2017.693	0.150	0.308	610.200	-0.279	17.6056
0.070	149.463	2017.822	0.183	0.311	610.200	-0.292	17.6218
0.140	149.463	2018.733	0.183	0.345	610.200	-0.279	17.6137
0.210	149.463	2018.734	0.183	0.677	610.200	-0.266	17.6097
0.280	149.463	2017.820	0.209	1.772	610.200	-0.279	17.6097
0.350	149.463	2018.213	0.550	3.449	610.200	-0.266	17.5976
0.420	149.463	2018.211	2.039	4.771	610.200	-0.292	17.5814
0.490	149.463	2019.125	4.333	6.151	610.200	-0.279	17.6137
0.560	149.463	2019.125	6.012	7.235	610.200	-0.292	17.6056
0.630	149.463	2018.344	6.895	7.744	610.200	-0.279	17.6056
0.700	149.463	2017.955	7.454	7.836	610.200	-0.305	17.6097
0.770	149.463	2018.996	7.729	7.766	610.200	-0.305	34.5860
0.840	149.463	2019.257	7.819	7.704	610.200	-0.292	34.9168
0.910	149.463	2019.517	7.795	7.718	610.200	-0.305	34.9289
0.980	149.463	2018.735	7.771	7.827	610.200	-0.292	34.9249
1.050	149.463	2018.998	7.737	7.959	610.200	-0.292	34.9329
1.120	149.463	2019.127	7.718	8.087	610.200	-0.305	34.9329
1.190	149.463	2019.388	7.718	8.171	610.200	-0.292	34.9329
1.260	149.463	2019.778	7.745	8.207	610.200	-0.292	34.9329
1.330	149.463	2019.128	7.752	8.224	610.200	-0.279	34.9289
1.400	149.463	2019.128	7.745	8.227	610.200	-0.305	34.9289
1.470	149.463	2019.519	7.739	8.283	610.200	-0.305	34.9370
1.540	149.463	2020.169	7.734	8.350	610.200	-0.292	34.9370
1.610	149.463	2020.299	7.731	8.395	610.200	-0.279	34.9329
1.680	150.012	2019.257	7.745	8.395	610.200	-0.292	34.9329
1.750	149.463	2019.389	7.755	8.414	610.200	-0.292	34.9289

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2472E 06	9.8975E 05	0.305	10.17	1122.0	0.11854E 07	0.3048	1.000	RUN NO. 24
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.8975E 05	9.8975E 05	1.000	149.46	2019.5	509.73	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.263	0.0425	0.0425	0.0486	0.0513	39	214	0.287	0.0000	0.0000	0.0001	0.0001
2	17	0.287	0.0000	0.0000	0.0000	0.0000	40	215	0.263	0.0130	0.0130	0.0148	0.0157
3	18	0.266	0.0431	0.0431	0.0492	0.0520	41	216	0.260	0.0047	0.0047	0.0054	0.0057
4	19	0.266	0.0505	0.0505	0.0578	0.0610	42	217	0.260	0.0016	0.0016	0.0018	0.0019
5	20	0.266	0.0600	0.0600	0.0686	0.0724	43	218	0.260	0.0003	0.0003	0.0003	0.0003
6	21	0.266	0.0667	0.0667	0.0763	0.0805	44	219	0.259	-0.0012	-0.0012	-0.0013	-0.0014
7	22	0.267	0.0712	0.0712	0.0814	0.0859	45	220	0.259	-0.0006	-0.0006	-0.0007	-0.0007
8	23	0.267	0.0742	0.0742	0.0849	0.0896	46	406	0.266	0.0837	0.0837	0.0957	0.1011
9	24	0.267	0.0785	0.0785	0.0898	0.0948	47	407	0.266	0.0729	0.0729	0.0834	0.0881
10	25	0.266	0.0789	0.0789	0.0902	0.0952	48	408	0.266	0.0557	0.0557	0.0637	0.0673
11	41	0.261	0.0093	0.0093	0.0106	0.0112	49	409	0.265	0.0477	0.0477	0.0545	0.0576
12	42	0.262	0.0249	0.0249	0.0284	0.0300	50	410	0.265	0.0410	0.0410	0.0469	0.0495
13	43	0.264	0.0144	0.0144	0.0165	0.0174	51	411	0.264	0.0353	0.0353	0.0404	0.0426
14	44	0.265	0.0219	0.0219	0.0250	0.0264	52	412	0.263	0.0244	0.0244	0.0279	0.0294
15	45	0.265	0.0368	0.0368	0.0421	0.0444	53	413	0.262	0.0169	0.0169	0.0193	0.0204
16	46	0.265	0.0453	0.0453	0.0518	0.0547	54	414	0.262	0.0069	0.0069	0.0079	0.0083
17	47	0.265	0.0510	0.0510	0.0583	0.0615	55	415	0.261	0.0030	0.0030	0.0034	0.0036
18	48	0.265	0.0473	0.0473	0.0541	0.0571	56	416	0.261	0.0014	0.0014	0.0016	0.0017
19	49	0.265	0.0342	0.0342	0.0391	0.0413	57	417	0.260	0.0005	0.0005	0.0005	0.0006
20	50	0.265	0.0205	0.0205	0.0234	0.0247	58	418	0.260	0.0002	0.0002	0.0003	0.0003
21	103	0.270	0.0764	0.0764	0.0874	0.0924	59	419	0.260	0.0003	0.0003	0.0003	0.0003
22	105	0.271	0.0746	0.0746	0.0854	0.0902	60	420	0.259	-0.0001	-0.0001	-0.0002	-0.0002
23	107	0.270	0.0807	0.0807	0.0923	0.0976	61	506	0.266	0.0629	0.0629	0.0720	0.0760
24	108	0.269	0.0877	0.0877	0.1003	0.1059	62	507	0.266	0.0592	0.0592	0.0677	0.0715
25	110	0.268	0.0795	0.0795	0.0909	0.0960	63	508	0.265	0.0559	0.0559	0.0638	0.0674
26	111	0.268	0.0701	0.0701	0.0802	0.0847	64	509	0.264	0.0471	0.0471	0.0538	0.0568
27	112	0.267	0.0513	0.0513	0.0587	0.0620	65	510	0.264	0.0420	0.0420	0.0480	0.0507
28	113	0.266	0.0322	0.0322	0.0368	0.0388	66	511	0.264	0.0402	0.0402	0.0459	0.0485
29	114	0.265	0.0098	0.0098	0.0112	0.0118	67	512	0.263	0.0310	0.0310	0.0354	0.0374
30	115	0.263	0.0022	0.0022	0.0025	0.0026	68	513	0.263	0.0212	0.0212	0.0243	0.0256
31	203	0.268	0.0686	0.0686	0.0785	0.0829	69	514	0.262	0.0070	0.0070	0.0080	0.0084
32	205	0.268	0.0736	0.0736	0.0842	0.0890	70	515	0.261	0.0015	0.0015	0.0017	0.0018
33	207	0.268	0.1084	0.1084	0.1240	0.1309	71	516	0.261	0.0017	0.0017	0.0019	0.0020
34	208	0.268	0.1313	0.1313	0.1502	0.1586	72	517	0.261	0.0024	0.0024	0.0027	0.0029
35	210	0.267	0.1276	0.1276	0.1459	0.1541	73	518	0.260	0.0013	0.0013	0.0015	0.0016
36	211	0.266	0.1174	0.1174	0.1342	0.1418	74	519	0.260	0.0002	0.0002	0.0002	0.0002
37	212	0.265	0.0932	0.0932	0.1065	0.1125	75	520	0.260	0.0004	0.0004	0.0005	0.0005
38	213	0.267	0.0001	0.0001	0.0001	0.0001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.2472E 06	9.8975E 05	0.305	10.17	1122.0	0.11854E 07	0.304E	1.000	RUN NO.	24
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.8975E 05	9.8975E 05	1.000	149.46	2019.5	509.73	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	310.8	559.4	0.514	0.453	12.092	10.655	1.6178E-04	1.7079E-04	-0.069
2	17	338.7	609.7	0.000	0.000	11.679	10.291	1.1708E-15	1.2384E-15	*******
3	18	313.7	564.7	0.519	0.457	12.049	10.617	1.6395E-04	1.7311E-04	-0.023
4	19	314.0	565.2	0.609	0.536	12.044	10.613	1.9234E-04	2.0310E-04	0.043
5	20	314.2	565.6	0.722	0.636	12.041	10.610	2.2823E-04	2.4099E-04	0.134
6	21	314.5	566.0	0.803	0.708	12.037	10.607	2.5391E-04	2.6812E-04	0.165
7	22	314.7	566.4	0.857	0.755	12.035	10.604	2.7093E-04	2.8610E-04	0.189
8	23	314.6	566.3	0.893	0.787	12.036	10.605	2.8247E-04	2.9828E-04	0.200
9	24	314.9	566.8	0.945	0.832	12.031	10.601	2.9891E-04	3.1565E-04	0.213
10	25	314.0	565.2	0.950	0.837	12.044	10.613	3.0015E-04	3.1694E-04	0.213
11	41	308.3	554.9	0.112	0.099	12.129	10.688	3.5202E-05	3.7155E-05	0.694
12	42	309.4	557.0	0.301	0.265	12.112	10.672	9.4605E-05	9.9863E-05	0.016
13	43	312.0	561.6	0.174	0.153	12.074	10.639	5.4808E-05	5.7865E-05	-0.073
14	44	312.6	562.7	0.264	0.233	12.065	10.631	8.3358E-05	8.8011E-05	-0.054
15	45	312.5	562.5	0.444	0.391	12.066	10.632	1.4013E-04	1.4795E-04	-0.024
16	46	312.6	562.8	0.547	0.482	12.064	10.630	1.7251E-04	1.8214E-04	0.005
17	47	312.8	563.1	0.615	0.542	12.061	10.628	1.9406E-04	2.0490E-04	0.017
18	48	312.8	563.0	0.571	0.503	12.062	10.629	1.8011E-04	1.9017E-04	0.017
19	49	313.1	563.6	0.413	0.364	12.057	10.624	1.3024E-04	1.3751E-04	0.029
20	50	312.2	562.0	0.247	0.218	12.071	10.636	7.7952E-05	8.2301E-05	0.275
21	103	318.4	573.0	0.916	0.807	11.980	10.556	2.9099E-04	3.0736E-04	0.223
22	105	319.6	575.3	0.893	0.787	11.961	10.539	2.8418E-04	3.0020E-04	0.217
23	107	319.1	574.4	0.966	0.851	11.969	10.546	3.0732E-04	3.2463E-04	0.258
24	108	318.1	572.5	1.051	0.926	11.984	10.560	3.3378E-04	3.5256E-04	0.148
25	110	316.7	570.0	0.954	0.841	12.005	10.578	3.0259E-04	3.1958E-04	-0.047
26	111	316.1	569.0	0.842	0.742	12.013	10.585	2.6696E-04	2.8193E-04	0.006
27	112	314.9	566.8	0.618	0.544	12.032	10.601	1.9540E-04	2.0634E-04	0.220
28	113	313.8	564.9	0.387	0.341	12.047	10.615	1.2237E-04	1.2921E-04	0.363
29	114	312.3	562.1	0.118	0.104	12.070	10.635	3.7127E-05	3.9198E-05	0.415
30	115	310.8	559.5	0.026	0.023	12.091	10.654	8.2985E-06	8.7606E-06	0.100
31	203	316.0	568.7	0.825	0.727	12.015	10.587	2.6126E-04	2.7591E-04	0.194
32	205	316.8	570.2	0.884	0.779	12.003	10.577	2.8033E-04	2.9607E-04	0.237
33	207	316.5	569.7	1.301	1.147	12.007	10.580	4.1259E-04	4.3575E-04	0.292
34	208	315.8	568.4	1.578	1.391	12.018	10.590	4.9991E-04	5.2793E-04	0.233
35	210	314.5	566.2	1.536	1.353	12.036	10.606	4.8574E-04	5.1292E-04	0.050
36	211	314.0	565.2	1.414	1.246	12.044	10.613	4.4691E-04	4.7190E-04	0.088
37	212	313.0	563.4	1.124	0.990	12.059	10.626	3.5472E-04	3.7453E-04	0.241
38	213	338.7	609.7	0.001	0.001	11.679	10.291	2.0728E-07	2.1928E-07	1.468
39	214	338.7	609.7	0.001	0.000	11.679	10.291	1.8170E-07	1.9222E-07	1.317
40	215	309.8	557.7	0.157	0.139	12.106	10.667	4.9426E-05	5.2174E-05	-0.032
41	216	307.2	552.9	0.058	0.051	12.145	10.702	1.8056E-05	1.9056E-05	-0.018
42	217	306.9	552.5	0.019	0.017	12.149	10.705	5.9172E-06	6.2449E-06	-0.088
43	218	306.4	551.6	0.003	0.003	12.157	10.712	9.7874E-07	1.0329E-06	-1.799
44	219	306.1	551.0	-0.014	-0.013	12.161	10.716	-4.4406E-06	-4.6862E-06	0.731
45	220	305.7	550.2	-0.007	-0.007	12.168	10.722	-2.3077E-06	-2.4353E-06	-0.619
46	406	314.4	566.0	1.008	0.888	12.038	10.607	3.1861E-04	3.3644E-04	0.182
47	407	314.1	565.4	0.878	0.774	12.042	10.611	2.7764E-04	2.9317E-04	0.138
48	408	313.4	564.2	0.672	0.592	12.053	10.620	2.1217E-04	2.2402E-04	-0.017
49	409	312.9	563.3	0.575	0.507	12.060	10.627	1.8147E-04	1.9161E-04	-0.127
50	410	312.3	562.2	0.495	0.436	12.069	10.634	1.5616E-04	1.6487E-04	-0.127
51	411	311.9	561.5	0.426	0.376	12.075	10.640	1.3438E-04	1.4188E-04	-0.097
52	412	311.0	559.8	0.295	0.260	12.089	10.652	9.2876E-05	9.8049E-05	0.106
53	413	309.6	557.2	0.205	0.180	12.110	10.670	6.4251E-05	6.7822E-05	0.212
54	414	309.1	556.3	0.083	0.073	12.117	10.677	2.6171E-05	2.7625E-05	0.098
55	415	308.3	555.0	0.036	0.032	12.128	10.687	1.1223E-05	1.1846E-05	0.044
56	416	307.6	553.7	0.017	0.015	12.139	10.696	5.3717E-06	5.6694E-06	0.379
57	417	307.0	552.6	0.006	0.005	12.148	10.704	1.8143E-06	1.9148E-06	0.962
58	418	306.6	552.0	0.003	0.002	12.153	10.709	8.6969E-07	9.1783E-07	3.436
59	419	306.4	551.5	0.003	0.003	12.158	10.712	1.0190E-06	1.0754E-06	5.993
60	420	306.2	551.2	-0.002	-0.002	12.159	10.714	-5.4710E-07	-5.7737E-07	-10.526
61	506	313.9	565.0	0.758	0.668	12.046	10.614	2.3959E-04	2.5299E-04	0.107
62	507	313.4	564.0	0.714	0.629	12.054	10.621	2.2546E-04	2.3805E-04	0.090
63	508	312.7	562.8	0.674	0.594	12.064	10.630	2.1255E-04	2.2442E-04	0.081
64	509	311.8	561.2	0.568	0.501	12.077	10.642	1.7908E-04	1.8907E-04	-0.030
65	510	311.4	560.6	0.507	0.447	12.082	10.646	1.5976E-04	1.6866E-04	-0.061
66	511	311.1	560.0	0.486	0.428	12.087	10.650	1.5298E-04	1.6150E-04	-0.004
67	512	310.5	559.0	0.375	0.330	12.096	10.658	1.1799E-04	1.2455E-04	0.202
68	513	310.0	558.0	0.257	0.227	12.104	10.665	8.0827E-05	8.5322E-05	0.350
69	514	309.1	556.4	0.085	0.075	12.117	10.677	2.6642E-05	2.8121E-05	0.445
70	515	308.1	554.6	0.018	0.016	12.132	10.690	5.5480E-06	5.8557E-06	-0.125
71	516	308.1	554.6	0.020	0.018	12.131	10.689	6.3187E-06	6.6692E-06	0.543
72	517	307.6	553.7	0.029	0.026	12.139	10.696	9.1269E-06	9.6328E-06	0.667
73	518	307.2	553.0	0.016	0.014	12.145	10.701	4.9979E-06	5.2748E-06	0.032
74	519	306.9	552.4	0.002	0.002	12.149	10.705	6.2154E-07	6.5596E-07	0.585
75	520	306.4	551.6	0.005	0.004	12.157	10.712	1.5155E-06	1.5994E-06	5.044

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6489E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.401	7.755	8.414
PT2/PT1	5.621E-02	5.189E-02	5.630E-02
TEMP(DEG R)	2033.8	610.2	2143.7
TT2/TT1	1.0070	0.3022	1.0615

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. PT DATA TEST NO. 182 RUN NO. 25 FRAME 26 TO 51 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
C.C	C.C	C.0	C C 8 1	5.1C	0.5E63E C6		85.11	2013.9C	1.CCOC
T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IA PCS		
C.CCO	85.113	2012.992	C.112	C.159	674.271	-C.266	17.6097		
C.C7C	85.256	2012.862	0.112	C.162	674.271	-C.279	17.6218		
C.14C	85.256	2C14.C35	0.112	C.212	675.246	-C.279	17.6218		
C.21C	85.256	2013.903	C.112	C.5CE	682.C49	-C.266	17.6097		
C.28C	85.256	2012.601	C.152	1.222	757.367	-C.266	17.6016		
C.35C	85.113	2012.863	0.5C1	2.108	1168.6C7	-C.266	17.6097		
C.42C	85.256	2012.993	1.524	2.845	1554.5C9	-C.292	17.6137		
C.49C	85.256	2013.512	2.727	3.57E	1797.964	-C.279	17.6178		
C.56C	85.113	2013.773	3.483	4.C93	1873.787	-C.266	17.6097		
C.63C	85.256	2012.601	3.864	4.349	1889.218	-C.266	17.6056		
C.7CC	85.113	2012.862	4.152	4.389	1926.588	-C.266	17.6097		
C.77C	85.256	2012.993	4.352	4.21E	1967.622	-C.279	34.8926		
C.84C	85.113	2013.903	4.458	4.014	1975.536	-C.279	34.9249		
C.91C	85.113	2C13.903	4.450	3.90C	1961.C35	-C.266	34.9329		
C.98C	84.93C	2C13.382	4.437	3.88E	1962.355	-C.292	34.9289		
1.05C	84.93C	2C12.732	4.4C6	3.964	1975.536	-C.292	34.9329		
1.12C	85.113	2C13.383	4.414	4.C54	1991.960	-C.305	34.937C		
1.19C	85.128	2C13.904	4.435	4.081	2004.4C6	-C.305	34.937C		
1.26C	84.93C	2C14.C35	4.44C	4.101	2016.124	-C.292	34.9329		
1.33C	85.113	2C13.251	4.437	4.14E	2014.2C9	-C.279	34.9289		
1.4CC	85.113	2C13.383	4.443	4.213	2027.859	-C.292	34.9329		
1.47C	84.93C	2C13.383	4.472	4.26C	2047.39C	-C.305	34.937C		
1.54C	85.113	2C13.903	4.456	4.241	2053.222	-C.292	34.9329		
1.61C	85.113	2C13.903	4.472	4.221	2C4C.9C2	-C.292	34.9329		
1.68C	85.256	2C13.38C	4.44C	4.221	2046.093	-C.292	34.9285		
1.75C	84.93C	2C13.513	4.435	4.243	2057.1C6	-C.292	34.9329		

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAW/PT	TEST NO.	182
5.10	1.8578E C8	5.6627E C5	C.3C5	5.79	1116.6	C.1181E 07	C.3046	1.CCC	RUN NO.	25
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	PAW/PT		
5.1C	5.6627E C5	5.6627E C5	1.CC0	85.11	2C13.5	5C8.18	1.CCCC	1.CCC	

CHAN	T/C	PW/PT	G/CS	P/PS(1.CCC)	P/PS(C.90E)	P/PS(0.874)	CHAN	T/C	PW/PT	G/CS	P/PS(1.CCC)	P/PS(0.90E)	P/PS(0.874)
1	16	C.261	C.0513	C.0513	C.0586	C.0619	39	214	C.288	C.CCCC	C.CCCC	C.CCCC	C.CCCC
2	17	C.288	C.CCCC	C.CCCC	C.CCCC	C.CCCC	4C	215	C.26C	C.0006	C.C006	C.CCC7	C.CC07
3.	18	C.269	C.C596	C.C596	C.0681	C.0719	41	216	C.259	-0.0004	-0.C004	-0.0005	-C.C005
4	19	C.263	C.0622	C.C622	C.C711	C.C75C	42	217	C.255	-C.CCC1	-C.CCC1	-0.0001	-0.CC01
5	2C	C.263	C.0657	C.0657	C.C75C	C.C792	43	218	C.255	-C.CCC4	-C.CCC4	-C.CCC5	-0.CC05
6	21	C.263	C.C698	C.C658	C.C798	C.C842	44	219	C.258	0.0004	C.C004	C.CCC4	C.CC04
7	22	C.263	C.C72C	C.C72C	C.Ce23	C.C869	45	22C	C.258	-0.0014	-C.C014	-0.0016	-C.C017
8	23	C.263	C.0726	C.C726	C.C829	C.C875	46	4C6	C.263	C.C61C	0.C61C	0.0657	0.0736
9	24	C.263	C.C771	C.0771	C.C881	C.C93C	47	4C7	C.263	C.C627	C.C627	C.C716	0.0756
1C	25	C.263	C.C817	C.C817	C.C934	C.C986	48	4C8	C.263	0.0572	0.0572	C.0653	C.C690
11	41	C.26C	C.C1C0	C.C1CC	C.C114	C.C12C	49	4C9	C.262	0.0506	0.050E	0.0578	C.0610
12	42	C.261	C.0177	C.C177	C.C2C2	C.C214	5C	41C	C.262	C.C424	0.0424	0.0485	0.0512
13	43	C.262	C.C161	C.0161	C.C184	C.C194	51	411	C.262	C.C357	C.C357	C.C4C7	0.043C
14	44	C.262	C.0193	C.C193	C.C22C	C.C233	52	412	C.261	0.0214	0.0214	C.C245	C.C259
15	45	C.262	C.0187	C.C187	C.C214	C.C226	53	413	C.26C	0.0126	0.012E	0.0144	C.0151
16	46	C.262	C.018C	C.C18C	C.C2C5	C.C217	54	414	C.26C	C.CC27	0.CC27	0.0030	0.0032
17	47	C.262	C.C2C6	C.020E	C.C235	C.C248	55	415	C.26C	-C.CCC1	-C.CCC1	-C.CCC1	-0.CC01
18	48	C.262	C.0188	C.C18E	C.C215	C.C227	56	416	C.259	-C.CCC1	-C.CCC1	-C.CCC1	-C.CC1
19	49	C.262	C.C231	C.C231	C.C264	C.C279	57	417	C.259	-C.CC1C	-C.CC1C	-C.CC11	-C.CC12
2C	5C	C.262	C.C247	C.C247	C.C282	C.C297	58	418	C.259	-C.CCC2	-C.CCC2	-C.CCC2	-C.CC03
21	103	C.266	C.C796	C.C79E	C.C91C	C.C961	59	419	C.259	-C.CCC4	-C.CCC4	-C.CCC5	-C.CC05
22	105	C.266	C.C771	C.C771	C.C882	C.C931	6C	42C	C.259	-C.CCC1	-C.CCC1	-C.CCC2	-C.CCC2
23	1C7	C.266	C.C796	C.C796	C.C911	C.C962	61	5C6	C.263	C.0555	C.0555	C.0634	C.C670
24	1C8	C.265	C.C781	C.C781	C.C892	C.C942	62	5C7	C.263	C.C546	C.C546	C.C624	C.C658
25	11C	C.264	C.C833	C.C833	C.C723	C.C764	63	5C8	C.262	C.C5CC	C.C5CC	C.C571	C.C603
26	111	C.264	C.C532	C.C532	C.C6C5	C.C642	64	5C9	C.262	C.0412	C.C412	C.C471	C.C497
27	112	C.263	C.C355	C.C355	C.C4C6	C.C428	65	51C	C.262	C.0365	C.0365	C.0417	C.C440
28	113	C.263	C.C2C4	C.C2C4	C.C233	C.C246	66	511	C.261	C.C331	C.C331	C.0378	C.0399
29	114	C.262	C.CC47	C.C047	C.C054	C.CC57	67	512	C.261	C.C231	C.C231	C.C264	C.0275
3C	115	C.261	C.CC11	C.CC11	C.C012	C.CC13	68	513	C.261	C.0140	C.C14C	C.C16C	C.C169
31	2C3	C.264	C.C719	C.C719	C.C821	C.C867	69	514	C.26C	C.003C	C.003C	C.0035	C.C037
32	2C5	C.265	C.C738	C.C738	C.C843	C.C89C	7C	515	C.26C	C.CC1C	C.CC1C	C.0012	C.0012
33	2C7	C.264	C.C762	C.0762	C.C871	C.C92C	71	516	C.26C	C.CCC8	C.CC08	C.CC1C	C.CC1C
34	2C8	C.264	C.C662	C.C662	C.C757	C.C799	72	517	C.259	C.0029	C.CC29	C.CC34	C.CC35
35	21C	C.263	C.C469	C.C469	C.C536	C.C56E	73	518	C.259	-C.CCC7	-C.CCC7	-C.CCC8	-C.CC08
36	211	C.263	C.C3E5	C.C3E5	C.C443	C.C467	74	519	C.259	-C.CCCC	-C.CCCC	-C.CCC0	-C.CC00
37	212	C.262	C.C261	C.C261	C.C299	C.C315	75	52C	C.259	C.CCC9	C.CCC9	C.CC1C	C.0011
38	213	C.288	-C.CCCC	-C.CCCC	-C.CCCC	-C.CCCC							

C3UUC8

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAW/PT	TEST NO.	182
5.10	1.69388E C6	5.66278 C5	C.305	5.79	1116.6	0.11617E C7	C.3041	1.CCC	RUN NO.	25
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	PAW/PT			
5.10	5.66278 C5	5.66278 C5	1.CCC	85.11	2013.9	5C8.18	1.CCCO			

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(C.874)	TIME(SEC)
1	1C	3C7.7	553.8	C.468	C.413	9.122	8.038	2.5830E-04	2.7264E-04	C.C81
2	17	838.7	6C9.7	C.CCC	0.CCC	8.776	7.733	1.2102E-15	1.2804E-15	*******
3	1E	3C9.2	556.5	C.543	C.478	9.1C5	8.023	2.9986E-04	3.1654E-04	0.130
4	1F	309.5	556.7	C.566	C.499	9.1C4	8.022	3.1299E-04	3.3041E-04	0.161
5	2C	3C9.3	556.7	C.598	C.527	9.104	8.022	3.2044E-04	3.4882E-04	C.185
6	21	3C9.4	557.C	C.636	0.56C	9.1C3	8.021	3.5146E-04	3.7102E-C4	0.196
7	22	3C9.6	557.3	C.656	C.57e	9.1C1	8.C19	3.6254E-04	3.8272E-04	C.211
8	23	3C9.9	557.C	C.660	C.582	9.1C2	8.C20	3.6511E-04	3.8543E-04	0.2C8
9	24	3C9.7	557.5	C.7C2	C.618	9.C99	8.018	3.8811E-04	4.C972E-04	C.223
10	25	3C9.1	556.3	C.744	0.65E	9.1C6	8.024	4.1119E-04	4.3406E-04	0.238
11	41	3C6.C	550.9	C.C91	C.C8C	9.141	8.C54	5.CC66E-C5	5.2838E-05	0.742
12	42	306.E	552.2	C.162	C.143	9.132	8.C47	8.9137E-05	9.4C78E-05	C.4C6
13	43	3C7.9	554.3	C.147	C.129	9.115	8.035	8.1054E-05	8.5555E-05	C.419
14	44	3C8.2	555.C	0.176	0.155	9.115	8.031	9.7023E-05	1.0241E-04	0.396
15	45	3C8.1	554.5	0.171	C.15C	9.11E	8.034	9.4141E-05	9.937CE-05	0.433
16	46	308.1	554.5	C.164	C.144	9.118	8.034	9.C4C4E-05	9.5425E-05	C.447
17	47	3C8.3	554.9	0.187	C.165	9.115	8.032	1.0350E-04	1.0925E-04	C.461
18	4E	3C8.1	554.5	0.172	0.151	9.11E	8.034	9.4698E-05	9.9956E-C5	0.491
19	4F	3C8.5	555.4	C.211	C.186	9.113	8.029	1.1635E-04	1.2282E-04	C.446
2C	5C	307.E	554.0	C.225	C.198	9.121	8.C37	1.24C3E-04	1.3C91E-04	0.362
21	1C2	312.E	562.E	0.722	C.63E	9.C67	7.989	4.CC85E-04	4.2325E-04	C.240
22	1C5	313.4	564.2	0.659	0.616	9.C58	7.981	3.8825E-04	4.0598E-04	0.234
23	1C7	312.5	563.2	C.722	C.636	9.C64	7.986	4.CC53E-04	4.2335E-04	0.245
24	1C8	312.1	561.7	C.708	C.624	9.C73	7.995	3.9288E-04	4.1482E-04	0.132
25	11C	31C.5	559.7	C.595	C.5C7	9.C86	8.006	3.1857E-04	3.3634E-04	C.C45
26	111	31C.E	559.C	C.484	0.426	9.C5C	8.CC9	2.6798E-04	2.8291E-04	0.154
27	112	3C9.E	557.4	C.323	C.285	9.1CC	8.018	1.7665E-04	1.886CE-04	0.424
28	113	3CE.5	556.1	C.186	C.164	9.1C8	8.025	1.C256E-04	1.0827E-04	C.6C4
29	114	3C7.5	554.2	0.043	C.C38	9.120	8.036	2.3728E-05	2.5C45E-05	C.641
3C	115	3C6.8	552.3	0.C1C	0.008	9.132	8.046	5.292CE-06	5.5E61E-C6	0.447
31	2C3	21C.E	559.4	C.653	C.576	9.CE7	E.CC7	3.6175E-04	3.8191E-04	0.207
32	2C5	311.4	560.4	C.670	C.59C	9.C81	8.CC2	3.7137E-04	3.92C9E-04	0.217
33	2C7	311.1	560.0	C.692	C.61C	9.C84	8.CC4	3.8364E-04	4.C5C4E-04	C.195
34	2C8	31C.5	558.9	C.6C2	0.531	9.C91	8.010	3.3333E-04	3.519CE-04	0.130
35	21C	3C9.E	557.3	0.427	C.376	9.1C1	E.019	2.3599E-04	2.4912E-04	0.039
36	211	3C9.2	556.E	0.353	C.311	9.1C5	8.023	1.9501E-04	2.C586E-04	C.143
37	212	3CE.5	555.3	C.238	C.210	9.1B3	8.030	1.3150E-04	1.3881E-04	C.379
38	213	838.7	6C9.7	-0.CCC	-0.CCO	8.776	7.733	-1.8236E-C7	-1.9294E-07	0.395
39	214	838.7	6C9.7	0.CCO	C.CCO	8.776	7.733	4.5659E-08	4.83C8E-08	1.017
4C	215	3C6.4	551.4	C.CC5	C.CC5	9.137	8.051	2.9745E-06	3.1353E-06	0.666
41	216	3C4.E	548.4	-C.CC4	-C.CC3	9.15E	8.068	-2.1396E-0E	-2.2578E-0E	-2.244
42	217	3C4.4	548.C	-0.CC1	-0.CC1	9.15E	8.070	-3.9277E-C7	-4.1447E-C7	-15.048
43	21E	3C4.2	547.E	-C.CC4	-C.CC3	9.161	E.C72	-1.985CE-06	-2.0947E-06	-1.481
44	21F	3C4.C	547.2	C.CC3	C.CC3	9.163	8.074	1.7648E-06	1.8623E-06	4.773
45	22C	3C3.7	546.7	-C.C13	-C.C11	9.166	8.077	-7.0108E-0E	-7.3978E-0E	C.318
46	4CE	3C5.5	557.8	0.555	0.489	9.097	8.016	3.0684E-04	3.2393E-04	0.141
47	4C7	3C9.E	557.2	C.57C	C.5C2	9.1C1	E.019	3.1530E-04	3.3285E-04	0.132
48	4CE	309.C	556.3	C.521	C.459	9.1C7	E.C24	2.8778E-04	3.C378E-04	0.C15
49	4C9	3CE.E	555.5	C.461	C.4C6	9.111	8.028	2.5458E-04	2.6873E-04	-C.C66
5C	41C	3CE.2	554.8	0.387	0.341	9.11E	8.033	2.1347E-04	2.2533E-04	-0.021
51	411	3C7.5	554.3	C.325	C.287	9.115	E.C35	1.7943E-04	1.8939E-04	C.089
52	412	307.2	553.0	C.196	C.172	9.127	8.042	1.C790E-04	1.1388E-04	0.415
53	413	3C6.5	551.7	C.115	C.1C1	9.13E	8.050	6.3219E-05	6.6722E-05	C.7C9
54	414	3C6.2	551.C	C.C24	0.021	9.14C	8.053	1.3336E-05	1.4074E-05	1.210
55	415	3C5.E	550.1	-C.CC1	-C.CC1	9.145	E.058	-6.1179E-07	-6.4565E-07	-6.9C1
56	416	3C5.1	549.2	-C.CC1	-C.CC1	9.151	8.C63	-3.5352E-C7	-4.1529E-07	-14.685
57	417	3C4.7	548.4	-C.CC9	-C.CC8	9.15E	8.067	-4.8491E-0E	-5.1172E-0E	C.522
58	418	3C4.5	548.1	-0.CC2	-0.CO2	9.15E	8.069	-1.0491E-06	-1.107CE-06	-2.310
59	419	3C4.3	547.8	-C.CC4	-C.CC3	9.16C	E.C71	-2.0564E-C6	-2.2123E-06	-0.628
6C	42C	3C4.3	547.7	-C.CC1	-C.CC1	9.16C	E.C71	-6.5514E-07	-7.3777E-07	-4.CC8
61	5C6	3C5.5	557.1	C.5C5	C.445	9.102	8.020	2.7937E-04	2.9492E-04	C.C76
62	5C7	3C5.2	556.5	0.467	0.438	9.1C6	8.023	2.7466E-04	2.8593E-04	0.062
63	5CE	3CE.7	555.E	C.465	C.4C1	9.111	E.C28	2.5142E-04	2.654CE-04	-0.037
64	5C5	3CE.1	554.5	C.376	C.331	9.118	8.034	2.0723E-04	2.1874E-04	-C.156
65	51C	3C7.E	554.1	C.333	C.293	9.121	8.036	1.825CE-04	1.9369E-04	-C.072
66	511	3C7.6	553.7	C.3C2	0.266	9.123	8.038	1.6645E-04	1.756BE-04	-0.008
67	512	3C7.2	553.C	0.211	C.186	9.127	E.042	1.1645E-04	1.2291E-04	0.341
68	513	3C6.5	552.4	C.132	C.113	9.131	E.046	7.C682E-05	7.46C1E-05	0.562
69	514	3C6.2	551.2	C.C2E	C.C24	9.13E	8.052	1.5263E-05	1.61C8E-05	C.985
7C	515	3C5.5	549.6	0.CC9	0.008	9.147	8.059	5.1141E-06	5.3971E-C6	1.458
71	516	3C5.5	549.8	C.CC8	C.CC7	9.147	E.C6C	4.24C2E-06	4.4749E-06	1.511
72	517	3C5.4	549.4	C.C27	C.C24	9.15C	E.C62	1.4773E-05	1.559CE-05	1.441
73	518	3C4.5	548.5	-C.CCE	-C.CC5	9.153	8.065	-3.3643E-0E	-3.55C4E-06	1.C71
74	519	3C4.6	548.6	-C.CCC	-C.CCC	9.155	8.066	-1.7434E-C7	-1.8398E-07	-15.099
75	52C	3C4.5	548.2	C.CC4	C.CC7	9.157	E.069	4.5CC4E-06	4.7491E-C6	2.734

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.5114E-C1 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	4.317	4.435	4.243
PT2/PT1	5.0725-02	5.2108-02	4.9868-02
TEMPERATURE R)	2014.9	2057.1	2107.3
TT2/TT1	1.0005	1.0219	1.0464

100

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 26 FRAME 25 TO 52 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9779E 06	150.22	2040.06	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	150.222	2039.933	0.171	0.224	719.302	-0.279	17.6056
0.070	150.039	2039.934	0.166	0.230	719.302	-0.279	17.6097
0.140	150.039	2040.192	0.163	0.280	719.302	-0.292	17.6137
0.210	150.222	2040.580	0.171	0.704	724.940	-0.292	17.6137
0.280	150.222	2040.581	0.208	1.941	793.530	-0.279	17.6137
0.350	150.405	2039.543	0.689	3.595	1250.427	-0.292	17.5976
0.420	150.039	2039.934	2.434	4.949	1710.653	-0.292	17.6056
0.490	150.039	2040.064	4.747	6.418	1893.905	-0.305	17.6137
0.560	150.039	2040.453	6.243	7.484	1933.232	-0.305	17.6137
0.630	150.039	2040.582	7.067	7.976	1962.355	-0.292	17.6137
0.700	150.222	2039.544	7.625	8.018	2014.861	-0.292	17.6016
0.770	150.222	2039.287	7.969	7.870	2047.390	-0.305	33.7226
0.840	150.039	2040.065	8.106	7.753	2063.573	-0.292	34.9249
0.910	150.222	2040.064	8.083	7.767	2046.093	-0.305	34.9329
0.980	150.222	2040.843	8.022	7.901	2053.222	-0.292	34.9329
1.050	150.222	2039.545	7.990	8.029	2073.257	-0.305	34.9289
1.120	150.222	2039.675	7.977	8.132	2051.279	-0.292	34.9289
1.190	150.039	2039.803	7.977	8.216	2071.322	-0.305	34.9329
1.260	150.222	2040.064	7.990	8.283	2092.568	-0.305	34.9329
1.330	150.222	2040.582	7.990	8.325	2071.967	-0.292	34.9329
1.400	150.405	2039.544	7.972	8.347	2075.192	-0.305	34.9289
1.470	150.039	2039.415	7.974	8.378	2094.495	-0.292	34.9329
1.540	150.039	2039.543	7.987	8.412	2110.525	-0.305	34.9329
1.610	150.222	2039.933	8.003	8.490	2116.283	-0.305	34.9329
1.680	150.222	2040.321	8.022	8.551	2111.165	-0.292	34.9329
1.750	150.405	2039.673	8.011	8.560	2102.837	-0.292	34.9289
1.820	150.222	2039.545	8.003	8.579	2104.760	-0.292	34.9289
1.890	150.039	2039.543	8.022	8.607	2101.555	-0.305	24.7705

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.2084E 06	9.7791E 05	0.305	10.22	1133.4	0.11986E 07	0.3048	1.000	RUN NO.	26
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.7791E 05	9.7791E 05	1.000	150.22	2040.1	515.42	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.261	0.0470	0.0470	0.0537	0.0566	39	214	0.284	0.0000	0.0000	0.0000	0.0000
2	17	0.284	0.0000	0.0000	0.0000	0.0000	40	215	0.259	0.0001	0.0001	0.0001	0.0001
3	18	0.263	0.0535	0.0535	0.0611	0.0645	41	216	0.257	-0.0012	-0.0012	-0.0014	-0.0014
4	19	0.263	0.0557	0.0557	0.0636	0.0672	42	217	0.257	-0.0003	-0.0003	-0.0004	-0.0004
5	20	0.263	0.0585	0.0585	0.0669	0.0706	43	218	0.256	-0.0006	-0.0006	-0.0006	-0.0007
6	21	0.263	0.0621	0.0621	0.0709	0.0749	44	219	0.256	-0.0002	-0.0002	-0.0003	-0.0003
7	22	0.263	0.0632	0.0632	0.0722	0.0762	45	220	0.256	-0.0006	-0.0006	-0.0007	-0.0007
8	23	0.263	0.0652	0.0652	0.0745	0.0786	46	406	0.263	0.0580	0.0580	0.0662	0.0699
9	24	0.263	0.0715	0.0715	0.0817	0.0863	47	407	0.263	0.0615	0.0615	0.0703	0.0742
10	25	0.263	0.0737	0.0737	0.0842	0.0889	48	408	0.262	0.0570	0.0570	0.0651	0.0687
11	41	0.258	0.0098	0.0098	0.0112	0.0119	49	409	0.262	0.0498	0.0498	0.0569	0.0600
12	42	0.260	0.0140	0.0140	0.0159	0.0168	50	410	0.261	0.0415	0.0415	0.0474	0.0500
13	43	0.261	0.0126	0.0126	0.0144	0.0152	51	411	0.261	0.0342	0.0342	0.0391	0.0413
14	44	0.262	0.0172	0.0172	0.0197	0.0208	52	412	0.260	0.0183	0.0183	0.0209	0.0221
15	45	0.261	0.0162	0.0162	0.0185	0.0195	53	413	0.259	0.0116	0.0116	0.0133	0.0140
16	46	0.261	0.0164	0.0164	0.0187	0.0198	54	414	0.259	0.0019	0.0019	0.0022	0.0023
17	47	0.262	0.0170	0.0170	0.0194	0.0205	55	415	0.258	-0.0003	-0.0003	-0.0004	-0.0004
18	48	0.262	0.0183	0.0183	0.0209	0.0221	56	416	0.257	-0.0009	-0.0009	-0.0011	-0.0011
19	49	0.262	0.0267	0.0267	0.0305	0.0322	57	417	0.257	-0.0010	-0.0010	-0.0012	-0.0012
20	50	0.261	0.0221	0.0221	0.0253	0.0267	58	418	0.256	-0.0008	-0.0008	-0.0010	-0.0010
21	103	0.267	0.0730	0.0730	0.0834	0.0881	59	419	0.256	-0.0015	-0.0015	-0.0018	-0.0018
22	105	0.268	0.0704	0.0704	0.0806	0.0851	60	420	0.256	-0.0019	-0.0019	-0.0022	-0.0023
23	107	0.267	0.0738	0.0738	0.0844	0.0891	61	506	0.263	0.0530	0.0530	0.0606	0.0640
24	108	0.266	0.0750	0.0750	0.0858	0.0906	62	507	0.262	0.0488	0.0488	0.0558	0.0589
25	110	0.265	0.0635	0.0635	0.0726	0.0766	63	508	0.262	0.0415	0.0415	0.0474	0.0500
26	111	0.265	0.0547	0.0547	0.0625	0.0660	64	509	0.261	0.0292	0.0292	0.0333	0.0352
27	112	0.264	0.0386	0.0386	0.0441	0.0465	65	510	0.261	0.0325	0.0325	0.0371	0.0392
28	113	0.263	0.0233	0.0233	0.0266	0.0281	66	511	0.260	0.0303	0.0303	0.0347	0.0366
29	114	0.261	0.0071	0.0071	0.0081	0.0085	67	512	0.260	0.0204	0.0204	0.0233	0.0246
30	115	0.260	0.0015	0.0015	0.0017	0.0018	68	513	0.259	0.0128	0.0128	0.0146	0.0154
31	203	0.264	0.0658	0.0658	0.0752	0.0794	69	514	0.259	0.0022	0.0022	0.0025	0.0026
32	205	0.265	0.0693	0.0693	0.0792	0.0837	70	515	0.258	-0.0008	-0.0008	-0.0009	-0.0010
33	207	0.265	0.0772	0.0772	0.0883	0.0932	71	516	0.258	-0.0022	-0.0022	-0.0025	-0.0026
34	208	0.264	0.0652	0.0652	0.0745	0.0787	72	517	0.257	-0.0041	-0.0041	-0.0046	-0.0049
35	210	0.263	0.0442	0.0442	0.0505	0.0533	73	518	0.257	-0.0072	-0.0072	-0.0082	-0.0087
36	211	0.263	0.0362	0.0362	0.0414	0.0437	74	519	0.257	-0.0077	-0.0077	-0.0087	-0.0092
37	212	0.262	0.0246	0.0246	0.0281	0.0296	75	520	0.256	-0.0147	-0.0147	-0.0168	-0.0177
38	213	0.264	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2064E C6	9.7791E 05	0.305	10.22	1133.4	0.11986E 07	0.3048	1.CCO	RUN NO. 26
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.7791E 05	9.7791E 05	1.000	150.22	2040.1	515.42	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	310.9	559.6	0.578	0.509	12.304	10.841	1.7956E-04	1.8953E-04	0.014
2	17	338.7	609.7	0.000	0.000	11.891	10.478	7.8973E-16	8.3523E-16	*******
3	18	313.5	564.3	0.656	0.578	12.265	10.807	2.0459E-04	2.1597E-04	0.078
4	19	313.8	564.8	0.683	0.601	12.261	10.803	2.1283E-04	2.2467E-04	0.110
5	20	313.8	564.8	0.718	0.632	12.260	10.803	2.2374E-04	2.3619E-04	0.138
6	21	314.1	565.3	0.761	0.670	12.257	10.800	2.3728E-04	2.5048E-04	0.155
7	22	314.3	565.7	0.774	0.682	12.253	10.797	2.4162E-04	2.5507E-04	0.165
8	23	314.0	565.3	0.799	0.704	12.257	10.800	2.4914E-04	2.6301E-04	0.172
9	24	314.4	565.9	0.876	0.772	12.252	10.795	2.7335E-04	2.8858E-04	0.200
10	25	313.3	563.9	0.905	0.797	12.268	10.810	2.8186E-04	2.9753E-04	0.196
11	41	308.4	555.1	0.122	0.107	12.341	10.874	3.7637E-05	3.9715E-05	0.735
12	42	309.7	557.5	0.172	0.152	12.321	10.857	5.3381E-05	5.6335E-05	0.031
13	43	311.7	561.0	0.155	0.137	12.292	10.831	4.8262E-05	5.0939E-05	0.149
14	44	312.3	562.2	0.212	0.186	12.283	10.823	6.5870E-05	6.9528E-05	0.185
15	45	312.0	561.5	0.199	0.176	12.288	10.827	6.1965E-05	6.5404E-05	0.243
16	46	312.0	561.7	0.201	0.177	12.286	10.826	6.2664E-05	6.6143E-05	0.335
17	47	312.4	562.3	0.208	0.184	12.281	10.822	6.4850E-05	6.8451E-05	0.343
18	48	312.1	561.7	0.225	0.198	12.286	10.826	7.0024E-05	7.3911E-05	0.304
19	49	312.6	562.7	0.327	0.289	12.278	10.818	1.0196E-04	1.0763E-04	0.221
20	50	311.4	560.6	0.272	0.240	12.296	10.834	8.4499E-05	8.9186E-05	0.280
21	103	318.1	572.7	0.890	0.784	12.196	10.746	2.7910E-04	2.9472E-04	0.218
22	105	319.5	575.0	0.858	0.756	12.176	10.729	2.6941E-04	2.8452E-04	0.209
23	107	318.9	574.0	0.899	0.792	12.185	10.737	2.8219E-04	2.9801E-04	0.233
24	108	317.7	571.8	0.916	0.807	12.203	10.752	2.8697E-04	3.0302E-04	0.107
25	110	316.3	569.3	0.776	0.684	12.224	10.771	2.4279E-04	2.5634E-04	-0.047
26	111	315.7	568.3	0.669	0.589	12.232	10.778	2.0906E-04	2.2072E-04	0.049
27	112	314.5	566.1	0.472	0.416	12.250	10.794	1.4743E-04	1.5564E-04	0.314
28	113	313.5	564.3	0.286	0.252	12.265	10.807	8.9140E-05	9.4097E-05	0.479
29	114	311.9	561.5	0.087	0.077	12.288	10.828	2.7077E-05	2.8580E-05	0.650
30	115	310.5	558.8	0.018	0.016	12.310	10.847	5.5574E-06	5.8652E-06	0.573
31	203	315.4	567.8	0.805	0.709	12.236	10.782	2.5154E-04	2.6556E-04	0.191
32	205	316.2	569.2	0.847	0.747	12.224	10.771	2.6508E-04	2.7988E-04	0.216
33	207	315.9	568.6	0.945	0.832	12.230	10.776	2.9530E-04	3.1178E-04	0.183
34	208	315.1	567.2	0.798	0.703	12.241	10.786	2.4924E-04	2.6313E-04	0.118
35	210	313.9	564.9	0.542	0.477	12.260	10.802	1.6898E-04	1.7838E-04	0.010
36	211	313.3	564.0	0.444	0.391	12.268	10.810	1.3836E-04	1.4606E-04	0.091
37	212	312.3	562.2	0.302	0.266	12.282	10.822	9.3887E-05	9.9100E-05	0.310
38	213	338.7	609.7	-0.000	-0.000	11.891	10.478	-1.5324E-07	-1.6207E-07	1.475
39	214	338.7	609.7	0.000	0.000	11.891	10.477	2.5557E-08	2.7029E-08	0.885
40	215	309.3	556.8	0.001	0.001	12.327	10.862	4.1778E-07	4.4088E-07	1.612
41	216	306.5	551.8	-0.015	-0.013	12.368	10.898	-4.5871E-06	-4.8398E-06	-0.479
42	217	306.2	551.2	-0.004	-0.004	12.373	10.902	-1.3244E-06	-1.3973E-06	-3.540
43	218	305.8	550.4	-0.007	-0.006	12.380	10.908	-2.1538E-06	-2.2723E-06	-1.101
44	219	305.4	549.7	-0.003	-0.003	12.386	10.913	-8.9132E-07	-9.4034E-07	-5.241
45	220	305.0	549.0	-0.007	-0.006	12.392	10.919	-2.2029E-06	-2.3240E-06	-1.320
46	406	313.8	564.9	0.711	0.626	12.260	10.803	2.2156E-04	2.3389E-04	0.125
47	407	313.5	564.3	0.755	0.665	12.265	10.807	2.3528E-04	2.4837E-04	0.129
48	408	312.7	562.9	0.700	0.617	12.276	10.817	2.1790E-04	2.3000E-04	0.010
49	409	312.2	562.0	0.611	0.539	12.284	10.824	1.9025E-04	2.0081E-04	-0.096
50	410	311.7	561.1	0.510	0.449	12.292	10.831	1.5858E-04	1.6737E-04	-0.082
51	411	311.3	560.3	0.421	0.371	12.298	10.836	1.3090E-04	1.3815E-04	0.031
52	412	310.3	558.6	0.226	0.199	12.312	10.848	7.0046E-05	7.3925E-05	0.250
53	413	309.2	556.5	0.143	0.126	12.329	10.864	4.4441E-05	4.6898E-05	0.550
54	414	308.7	555.6	0.023	0.021	12.337	10.870	7.2456E-06	7.6459E-06	1.296
55	415	307.9	554.3	-0.004	-0.004	12.348	10.880	-1.3013E-06	-1.3731E-06	-3.453
56	416	307.1	552.8	-0.012	-0.010	12.360	10.891	-3.6070E-06	-3.8059E-06	-0.818
57	417	306.4	551.5	-0.012	-0.011	12.371	10.900	-3.8510E-06	-4.0631E-06	-0.230
58	418	306.1	550.9	-0.010	-0.009	12.376	10.905	-3.2126E-06	-3.3894E-06	-0.468
59	419	305.8	550.5	-0.019	-0.017	12.379	10.908	-5.8605E-06	-6.1830E-06	-0.165
60	420	305.7	550.2	-0.024	-0.021	12.382	10.910	-7.2824E-06	-7.6832E-06	-0.131
61	506	313.5	564.4	0.650	0.573	12.264	10.806	2.0275E-04	2.1403E-04	0.087
62	507	312.9	563.3	0.599	0.528	12.273	10.814	1.8670E-04	1.9707E-04	0.039
63	508	312.2	562.0	0.509	0.449	12.284	10.824	1.5846E-04	1.6726E-04	-0.091
64	509	311.3	560.3	0.359	0.316	12.298	10.836	1.1154E-04	1.1772E-04	-0.424
65	510	311.0	559.7	0.400	0.352	12.303	10.840	1.2414E-04	1.3102E-04	-0.169
66	511	310.7	559.2	0.373	0.329	12.307	10.844	1.1598E-04	1.2240E-04	-0.078
67	512	310.2	558.3	0.251	0.222	12.314	10.850	7.8028E-05	8.2348E-05	0.189
68	513	309.7	557.4	0.158	0.139	12.322	10.857	4.8887E-05	5.1592E-05	0.434
69	514	308.8	555.8	0.027	0.024	12.335	10.869	8.3027E-06	8.7616E-06	0.976
70	515	307.8	554.0	-0.010	-0.009	12.350	10.882	-3.1179E-06	-3.2900E-06	-0.427
71	516	307.7	553.9	-0.027	-0.023	12.351	10.883	-8.2230E-06	-8.6768E-06	-0.022
72	517	307.3	553.1	-0.050	-0.044	12.358	10.889	-1.5534E-05	-1.6390E-05	0.549
73	518	306.8	552.2	-0.089	-0.079	12.365	10.895	-2.7572E-05	-2.9091E-05	0.530
74	519	306.4	551.5	-0.095	-0.083	12.370	10.900	-2.9259E-05	-3.0871E-05	0.620
75	520	305.9	550.6	-0.182	-0.161	12.378	10.907	-5.6253E-05	-5.9350E-05	0.542

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6418E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.618	8.022	8.607
PT2/PT1	5.737E-02	5.340E-02	5.730E-02
TEMP(DEG R)	2042.8	2101.6	2162.1
TT2/TT1	1.0014	1.0301	1.0598

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 27 FRAME 26 TO 51 CONSTANT SET 691

REF1	REF2	REF3	A E C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
C.C	C.C	C.C	C C E 1	5.10	0.4978E C6	75.79	2029.27	1.CCCC

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IA POS
C.CCC	75.785	2028.493	0.056	C.123	675.246	-0.272	17.6C39
C.C7C	75.785	2C28.494	0.C56	C.12E	676.220	-C.29E	17.6079
C.14C	75.785	2028.624	C.C56	C.157	676.220	-C.285	17.6119
C.21C	75.588	2029.400	0.096	C.355	677.193	-0.29E	17.6119
C.28C	75.785	2028.363	0.117	0.88E	715.53C	-0.29E	17.5998
C.35C	75.785	2C28.102	C.315	1.65E	1C66.48E	-C.285	17.5595
C.42C	75.785	2028.363	1.088	2.36E	1484.13E	-C.29E	17.6079
C.49C	75.785	2C28.363	2.194	3.C28	1746.57C	-0.29E	17.6119
C.56C	75.785	2C29.141	2.977	3.522	1848.863	-0.285	17.6119
C.63C	75.785	EC28.234	3.345	3.79E	1875.8C2	-C.285	17.6039
C.7CC	75.588	2028.104	3.6C7	3.874	1895.912	-C.272	17.6079
C.77C	75.785	2028.363	3.8C8	3.72E	1923.529	-C.311	15.4393
C.84C	75.785	2C28.493	3.93C	3.525	1935.887	-C.29E	34.9213
C.91C	75.785	2C29.271	3.97C	3.425	1961.C35	-C.311	34.9294
C.98C	75.588	2028.101	3.975	3.427	1972.244	-C.298	34.9213
1.05C	75.785	2027.843	3.964	3.472	1988.680	-0.285	34.9254
1.12C	75.785	2028.234	3.983	3.547	2021.385	-C.311	34.9254
1.19C	75.785	2C28.493	4.CC7	3.6C5	2C11.596	-C.311	34.9294
1.26C	75.785	2029.011	3.978	3.623	2008.329	-C.311	34.9294
1.33C	75.785	2028.101	3.957	3.651	2026.597	-C.29E	34.9213
1.4CC	75.785	2C27.841	3.983	3.679	2038.554	-C.311	34.9254
1.47C	75.785	2C28.624	3.983	3.67E	2C27.859	-C.324	34.9294
1.54C	75.785	2028.362	3.975	3.695	2039.603	-C.29E	34.9254
1.61C	75.785	2C29.141	3.957	3.7C7	2036.554	-C.29E	34.9294
1.68C	75.785	2C28.232	3.954	3.735	2043.458	-C.29E	34.9213
1.75C	75.588	2C27.711	3.97C	3.749	2C46.C93	-C.25E	34.9254

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAW/PT	TEST NO. 182
5.10	1.6332E C6	4.9779E 05	0.305	5.16	1127.4	0.1151EE 07	0.3048	1.CCO	RUN NO. 27
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	PAW/HT	
5.10	4.9779E C5	4.9779E 05	1.CCO	75.79	2029.3	512.43	1.0000	1.CCO	

CHAN	T/C	PW/PT	Q/QS	P/PS(1.CCC)	P/PS(0.908)	P/PS(0.874)	CHAN	T/C	PW/PT	Q/QS	M/MS(1.CCC)	P/PS(C.908)	P/PS(C.874)
1	16	C.288	C.0447	C.0447	0.0516	C.0539	39	214	C.285	0.0000	0.0000	0.0000	C.CC00
2	17	C.285	C.CCCC	C.CCCC	C.CCCC	C.CCCC	4C	215	0.257	-0.CCC5	-C.CCC5	-0.0006	-0.0006
3	18	C.286	C.0539	C.0539	C.C615	C.C649	41	216	0.256	C.CCC1	C.CCC1	C.CCC1	0.0001
4	19	C.255	C.C567	C.0567	C.0648	C.C684	42	217	C.256	-C.CCC1	-C.CCC1	-C.CCC1	-0.CCC1
5	2C	C.256	C.C606	C.C606	0.0692	C.0730	43	218	C.256	0.CCC2	0.0002	0.0003	C.C003
6	21	C.26C	C.0631	C.C631	C.C721	0.C761	44	219	0.256	0.CCC3	0.0003	0.0003	C.C003
7	22	C.26C	C.0677	C.0677	C.0773	C.C816	45	22C	0.256	C.CCCC	C.CCC1	C.CCC1	0.0001
8	23	C.26C	C.0683	C.0683	C.0780	C.0823	46	4C8	C.26C	C.0625	C.C625	C.0714	C.C753
9	24	C.26C	C.0711	C.C711	C.C812	C.0857	47	407	C.26C	C.0646	0.0646	0.0737	C.C778
1C	25	C.259	C.C765	C.C765	C.C874	C.C922	48	4Ce	C.260	C.C588	0.0588	0.0671	C.C708
11	41	C.259	-C.CCC5	-C.CCC5	-C.CCC6	-C.CCC6	45	4C5	0.255	C.0520	0.C52C	0.0594	0.0626
12	42	C.257	C.C082	C.0082	0.C093	C.C098	5C	410	C.255	C.0443	0.C443	C.C5C6	C.0534
13	43	C.258	C.0123	C.C123	0.C14C	0.C148	51	411	C.255	C.0386	0.0386	0.0441	C.C465
14	44	C.259	C.0155	C.C155	C.C177	0.0186	52	412	0.258	0.0227	0.0227	0.0259	0.0273
15	45	C.259	C.C156	C.0156	C.C178	C.C187	53	413	0.257	C.0116	C.C116	0.0132	0.0140
16	46	C.259	C.C164	C.0164	C.0188	C.C198	54	414	0.257	C.0017	C.CC17	C.CC20	0.CC21
17	47	C.259	C.0182	C.0182	C.C208	C.0219	55	415	0.257	-0.CCC1	-0.0001	-0.0002	-C.CC02
18	48	0.259	C.0164	C.C164	C.C188	C.C198	5E	41e	0.257	-0.CCC1	-0.CCC1	-0.0001	-C.CCC1
19	49	C.259	C.C172	C.C172	C.C196	C.C207	57	417	0.256	-C.CCC3	-C.CCC3	-0.0003	-0.0003
2C	5C	C.258	C.C215	C.C215	C.C245	C.C259	5E	418	C.256	C.CCC5	C.CCC6	0.CCC6	0.CCC6
21	1C3	C.262	C.C723	C.C723	0.C838	C.0884	55	419	0.256	C.0002	0.0002	0.0003	C.C003
22	1C5	C.262	C.0745	C.C745	C.C852	0.0899	6C	42C	0.256	-0.CCCC	-0.CCCC	-0.0001	-0.0001
23	1C7	C.263	C.C831	0.0831	C.C95C	C.1CC3	62	5C6	0.26C	C.0541	C.C541	0.0618	0.0652
24	1CE	C.262	C.C814	C.0814	C.C93C	C.C982	62	5C7	C.26C	C.053E	C.C536	C.0612	0.C645
25	11C	C.261	C.C646	C.C646	0.C73E	C.0775	6E	5CE	C.259	0.0504	0.0504	0.0576	C.0608
26	111	C.261	C.0536	C.C536	C.C613	C.C647	64	5C5	C.259	0.0422	0.0422	0.0482	0.0509
27	112	C.26C	C.C346	C.0346	C.C395	C.C417	65	51C	C.258	C.C353	C.C353	C.0402	0.0425
28	113	C.26C	C.C188	C.C188	C.C215	C.C226	66	511	C.258	0.0327	C.C327	C.C373	0.C394
29	114	C.258	C.CC55	C.CC55	0.CC63	C.CC67	67	512	C.258	0.0215	0.0245	C.0258	
3C	115	C.258	C.CC11	C.CC11	C.CC13	0.CC13	6E	513	C.25E	C.0136	0.0136	0.0155	0.0164
31	2C3	C.261	C.0736	C.C736	C.C84C	C.C887	65	514	0.25E	C.CC23	0.CC23	0.0026	0.0028
32	2C5	C.261	C.C778	C.C778	0.0885	C.C938	7C	515	C.257	C.CCC1	C.CCC1	C.CCC1	0.CC01
33	2C7	C.261	C.0681	C.0681	0.C77E	C.0821	71	516	C.257	C.CCC2	0.0002	0.0003	C.C003
34	2CE	C.261	C.C639	C.C639	C.C73C	C.C77C	72	517	0.257	C.CCC9	0.CCC5	0.0010	0.0011
35	21C	C.26C	C.C5C3	C.C503	C.C574	C.C606	73	518	0.25E	C.CCC9	0.CCC9	C.CC10	0.0010
3E	211	C.259	C.C428	C.C428	C.C48E	C.C515	74	515	C.256	-C.CCC3	-C.CCC3	-C.CCC3	-0.CCC3
37	212	C.259	C.C297	C.C297	0.C335	C.0357	75	52C	C.256	C.CCC9	0.CCC9	0.0010	C.CC11
3E	213	C.265	-C.CCCC	-C.CCCC	-C.CCCC	-C.CCCC							

106

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6232E C6	4.9779E C5	C.305	5.16	1127.4	0.1191EE 07	C.3048	1.CC0	RUN NO. 27
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.9779E C5	4.9779E 05	1.CC0	75.79	2029.3	512.43	1.CCOC	1.C00	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.90E)	ST(0.874)	TIME(SEC)
1	16	3C5.6	55C.1	0.390	C.344	8.726	7.689	2.3963E-C4	2.5285E-04	0.066
2	17	336.7	6C9.7	C.CCO	C.CCC	8.378	7.382	1.5693E-15	1.6599E-15	*******
3	18	3C7.5	553.6	C.469	C.413	8.7CE	7.672	2.8879E-04	3.C476E-04	C.125
4	19	3C7.5	553.5	0.454	C.435	8.707	7.672	3.0411E-04	3.2093E-04	0.151
5	2C	3C7.8	554.1	C.527	C.465	8.7C3	7.669	3.2477E-04	3.4274E-04	0.191
6	21	3C8.1	554.6	C.549	C.484	8.7CC	7.666	3.3847E-04	3.572CE-04	C.197
7	22	3C8.2	554.8	C.589	C.519	8.699	7.665	3.6290E-04	3.8299E-04	C.2C6
8	23	3C8.1	554.5	0.594	C.524	8.7C1	7.667	3.6611E-04	3.8637E-04	C.199
9	24	3C8.2	554.8	C.619	C.545	8.695	7.665	3.8136E-04	4.0247E-04	0.194
10	25	3C7.7	553.8	C.666	C.587	8.7C5	7.670	4.1C25E-04	4.3294E-04	0.227
11	41	3C4.6	548.3	-C.CC4	-C.CC4	8.737	7.699	-2.6898E-06	-2.8379E-06	-6.937
12	42	3C5.2	549.6	C.C71	C.C63	8.73C	7.692	4.3780E-C5	4.6194E-05	C.548
13	43	3C6.2	551.1	C.1C7	C.C94	8.721	7.684	6.58C6E-C5	6.9439E-05	0.576
14	44	3C7.1	552.7	C.135	C.119	8.711	7.676	8.2864E-05	8.7443E-05	0.5C2
15	45	3C6.6	552.4	C.136	C.119	8.713	7.678	8.3408E-05	8.8C16E-05	C.550
16	46	3C7.C	552.5	C.143	C.126	8.712	7.677	8.8132E-05	9.3002E-05	C.667
17	47	3C7.1	552.9	C.158	C.140	8.71C	7.675	9.7458E-C5	1.0284E-04	0.566
18	48	3C7.C	552.6	C.143	C.126	8.712	7.676	8.8138E-05	9.3C08E-05	0.614
19	49	3C7.8	553.2	C.150	C.132	8.7C8	7.673	9.2047E-05	9.7136E-05	C.572
20	50	3C6.5	551.6	C.187	C.165	8.718	7.681	1.1514E-04	1.2149E-04	0.522
21	103	311.9	560.5	C.635	C.560	8.665	7.635	3.9319E-04	4.1505E-04	0.217
22	1C5	312.2	562.0	C.645	C.568	8.657	7.628	3.9961E-04	4.2185E-04	0.227
23	1C7	311.9	561.3	C.720	C.634	8.661	7.631	4.4577E-04	4.7057E-04	C.236
24	1C8	312.9	559.6	C.706	C.622	8.671	7.640	4.3654E-04	4.6080E-04	0.101
25	110	309.9	557.9	C.561	C.494	8.681	7.649	3.4835E-04	3.6556E-04	0.073
26	111	309.5	557.1	C.466	C.410	8.688	7.653	2.8751E-04	3.0345E-04	0.2C7
27	112	3C8.7	555.7	C.3C1	C.265	8.694	7.660	1.8555E-04	1.9583E-04	C.498
28	113	3C8.1	554.5	0.163	C.144	8.7C1	7.666	1.0071E-04	1.0628E-04	C.707
29	114	3C6.7	552.C	C.068	C.C43	8.715	7.679	2.9740E-C5	3.1383E-05	1.137
30	115	305.8	550.5	C.C10	C.CC9	8.724	7.687	5.9539E-06	6.2824E-06	2.5C5
31	2C3	3C9.1	556.4	C.639	C.563	8.680	7.657	3.9428E-04	4.1613E-04	C.217
32	2C5	309.4	557.C	C.676	C.595	8.686	7.654	4.1706E-04	4.4019E-04	0.252
33	2C7	3C9.7	557.4	C.592	C.521	8.684	7.652	3.6525E-C4	3.855CE-04	0.225
34	2C8	3C9.2	556.6	C.555	C.489	8.689	7.656	3.4257E-04	3.6156E-04	0.115
35	210	3C8.8	554.8	C.438	C.386	8.699	7.665	2.6965E-04	2.8457E-04	C.C15
36	211	3C7.9	554.2	C.392	C.328	8.703	7.668	2.2914E-04	2.4182E-04	0.163
37	212	3C6.9	552.5	C.258	C.228	8.713	7.677	1.5695E-04	1.6774E-04	0.453
38	213	336.7	6C9.7	-C.CCO	-C.CCC	8.378	7.382	-1.0173E-07	-1.0761E-07	-0.359
39	214	336.7	6C9.7	C.CCO	C.CCO	8.378	7.382	2.0359E-07	2.1539E-07	1.253
40	215	3C4.6	548.3	-C.CC4	-C.CC4	8.737	7.699	-2.8293E-06	-2.9851E-06	-1.852
41	216	3C3.5	547.C	C.CC1	C.CC1	8.745	7.705	3.9C16E-C7	4.1163E-07	32.888
42	217	3C3.5	547.0	-C.CC1	-C.CCC	8.745	7.705	-3.4171E-07	-3.6C51E-07	-25.703
43	218	3C3.7	546.7	C.CC2	C.CC2	8.747	7.707	1.1812E-06	1.2462E-06	8.144
44	219	3C3.4	546.2	C.CC2	C.CC2	8.750	7.710	1.4763E-06	1.5575E-06	7.570
45	22C	3C3.2	545.7	C.CCO	C.CCO	8.752	7.712	2.4565E-07	2.5915E-07	36.400
46	4C6	3C8.5	555.9	C.543	C.479	8.692	7.659	3.3506E-04	3.5362E-04	0.185
47	4C7	3C8.6	555.5	C.541	C.495	8.695	7.662	3.4613E-04	3.6530E-04	C.178
48	4C8	3C8.1	554.5	C.511	C.450	8.701	7.666	3.1496E-04	3.3239E-04	0.050
49	4C9	3C7.8	554.C	C.452	C.399	8.704	7.669	2.7863E-04	2.9405E-04	-0.017
50	41C	3C7.4	553.3	C.386	C.340	8.708	7.673	2.3769E-04	2.5C83E-04	0.C61
51	411	3C7.1	552.8	C.336	C.296	8.711	7.675	2.0700E-04	2.1844E-04	C.236
52	412	3C6.5	551.8	0.198	C.174	8.717	7.681	1.214EE-04	1.2817E-04	C.573
53	413	3C5.3	549.3	C.1C1	C.C89	8.731	7.694	6.2173E-C5	6.56CCE-05	0.864
54	414	3C4.3	549.5	C.C15	C.C13	8.73C	7.693	9.3195E-06	9.8333E-06	2.055
55	415	3C4.8	548.6	-C.CC1	-C.CC1	8.735	7.697	-7.7985E-07	-8.2281E-07	-9.045
56	416	3C4.4	547.9	-C.CC1	-C.CC1	8.739	7.701	-5.3602E-07	-5.6554E-07	-16.227
57	417	3C4.C	547.2	-C.CC2	-C.CC2	8.744	7.704	-1.4632E-06	-1.5438E-06	-2.544
58	418	3C3.5	547.1	C.CC4	C.CC4	8.744	7.705	2.6323E-06	2.7771E-06	3.754
59	419	3C3.7	546.7	0.CC2	C.CC2	8.747	7.707	1.3166E-06	1.3890E-06	5.370
60	42C	3C3.7	546.7	-C.CCC	-C.CCO	8.747	7.707	-2.4420E-07	-2.5763E-07	-17.933
61	5C6	3C8.6	555.4	C.47C	C.415	8.695	7.662	2.9CC0E-04	3.0806E-04	0.115
62	5C7	3C8.3	555.0	C.466	C.41C	8.698	7.664	2.8704E-04	3.C293E-04	0.089
63	5C8	3C7.8	554.0	C.439	C.387	8.7C4	7.669	2.7038E-04	2.8534E-04	-C.024
64	5C9	3C7.2	552.9	0.368	C.324	8.71C	7.675	2.2643E-04	2.3894E-04	-0.119
65	51C	3C6.4	551.6	C.3C7	C.271	8.718	7.682	1.8896E-04	1.9939E-04	-0.069
66	511	3C6.8	551.8	C.285	C.251	8.717	7.681	1.753CE-04	1.8498E-04	0.046
67	512	3C6.4	551.5	C.187	C.165	8.718	7.682	1.1497E-04	1.2132E-04	C.370
68	513	3C6.1	551.C	0.115	C.1C5	8.721	7.684	7.2911E-05	7.6935E-05	0.627
69	514	3C5.5	55C.C	C.C20	C.C18	8.727	7.69C	1.2357E-C5	1.3C8CE-05	1.116
70	515	3C4.8	548.6	C.CC1	C.CC1	8.736	7.697	4.3892E-07	4.6310E-07	7.411
71	516	3C4.8	548.6	C.CC2	C.CC2	8.736	7.697	1.2195E-06	1.2867E-06	3.199
72	517	3C4.5	548.1	C.CC8	C.CC7	8.738	7.7CC	4.8773E-06	5.1459E-06	2.624
73	518	3C4.2	547.7	C.CC8	C.CC7	8.741	7.7C2	4.6326E-06	4.8877E-06	0.992
74	519	3C4.1	547.5	-C.CC2	-C.CC2	8.742	7.7C3	-1.4627E-06	-1.5432E-06	-0.438
75	52C	3C3.9	547.C	C.CC8	C.CC7	8.745	7.706	4.6805E-06	4.9381E-06	1.693

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.33E1E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE,PSIA	3.791	3.970	3.749
PT2/PT1	5.002E-02	5.238E-02	4.946E-02
TEMPERATURE R	2017.5	2046.1	2103.5
TT2/TT1	0.9942	1.0083	1.0366

108

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 28 FRAME 25 TO 52 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9966E 06	150.04	2015.85	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	150.039	2015.454	0.155	0.201	709.852	-0.279	17.6016
0.070	150.039	2015.195	0.145	0.201	708.903	-0.279	17.6097
0.140	149.856	2015.195	0.145	0.251	710.800	-0.292	17.6097
0.210	149.856	2015.843	0.145	0.670	715.530	-0.292	17.6137
0.280	149.856	2016.496	0.187	1.935	774.658	-0.292	17.6097
0.350	150.039	2015.714	0.695	3.574	1245.213	-0.292	17.5976
0.420	150.039	2015.064	2.431	4.903	1683.566	-0.292	17.6056
0.490	150.039	2015.456	4.677	6.355	1871.098	-0.305	17.6097
0.560	150.039	2015.845	6.109	7.402	1935.223	-0.292	17.6137
0.630	150.039	2016.366	6.937	7.891	1938.540	-0.305	17.6097
0.700	150.039	2015.325	7.517	7.947	1958.394	-0.292	17.6016
0.770	150.039	2015.325	7.895	7.668	2014.861	-0.292	34.8805
0.840	149.856	2015.587	8.048	7.321	2020.733	-0.305	34.9208
0.910	150.039	2015.845	8.027	7.165	2031.804	-0.305	34.9289
0.980	150.222	2016.496	8.001	7.218	2040.902	-0.305	34.9289
1.050	150.039	2015.846	7.961	7.344	2032.454	-0.318	34.9208
1.120	150.039	2015.326	7.919	7.458	2038.304	-0.305	34.9249
1.190	150.039	2015.587	7.905	7.556	2040.902	-0.305	34.9289
1.260	150.039	2015.976	7.921	7.637	2053.870	-0.318	34.9289
1.330	150.039	2016.365	7.958	7.668	2056.459	-0.305	34.9329
1.400	150.222	2015.715	7.948	7.710	2059.694	-0.305	34.9208
1.470	150.039	2015.196	7.937	7.732	2071.322	-0.305	34.9289
1.540	150.039	2015.456	7.972	7.751	2098.989	-0.331	34.9289
1.610	150.039	2015.586	8.014	7.768	2092.568	-0.305	34.9289
1.680	150.039	2016.104	8.001	7.777	2073.257	-0.305	34.9289
1.750	150.039	2015.714	7.974	7.796	2086.140	-0.305	34.9289
1.820	150.039	2014.803	7.982	7.818	2105.401	-0.292	34.9249
1.890	150.039	2015.064	8.001	7.827	2106.682	-0.318	34.9289

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2697E 06	9.9661E 05	0.305	10.21	1119.9	0.11830E 07	0.3048	1.CCO	RUN NO. 28
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9661E 05	9.9661E 05	1.COO	150.04	2015.8	508.71	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.0CO)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.263	0.0473	C.0473	C.0540	0.0570	39	214	0.288	0.CCC0	0.0000	0.0000	0.CCC0
2	17	0.288	0.0000	0.0000	C.0000	0.0000	40	215	0.261	0.0004	C.CC04	0.0005	0.CCC5
3	18	0.265	0.0538	0.0538	0.0615	0.0649	41	216	0.259	-0.0027	-0.0027	-0.0030	-0.0032
4	19	0.265	0.0562	0.0562	0.0642	0.0678	42	217	0.259	-0.0018	-0.0018	-0.0021	-0.0022
5	20	0.265	0.0594	0.0594	C.0679	0.0717	43	218	0.258	-0.CC16	-0.0016	-0.0018	-0.0019
6	21	0.265	0.0644	0.0644	0.0736	0.0777	44	219	0.258	-0.0016	-0.CC16	-0.CC19	-0.C020
7	22	0.266	0.0659	0.0659	0.0754	0.0796	45	220	0.258	-0.0015	-0.CC15	-0.0018	-0.C019
8	23	0.265	0.0673	0.0673	0.0770	0.0813	46	406	0.265	0.0596	0.0596	0.0681	0.0719
9	24	0.266	0.0732	0.0732	C.0837	0.0884	47	407	0.265	0.0628	0.0628	0.0718	0.0758
10	25	0.265	0.0775	0.0775	C.0885	0.0935	48	408	0.264	0.0590	0.0590	0.C674	0.0712
11	41	0.261	C.0101	0.0101	0.0115	0.0122	49	409	0.264	0.0527	0.C527	0.C602	C.0636
12	42	0.262	0.0142	0.0142	C.0162	0.0171	50	410	0.263	0.0449	0.0449	0.0513	0.0542
13	43	0.263	0.0129	0.0129	C.0147	0.0156	51	411	0.263	0.0382	0.0382	0.0437	0.0461
14	44	0.264	0.0174	0.0174	0.0199	0.0210	52	412	0.262	0.0250	0.C250	0.C286	0.C302
15	45	0.263	0.0163	0.0163	0.0186	0.0197	53	413	0.261	0.0138	0.0138	0.0158	0.0167
16	46	0.264	0.0157	0.0157	0.0179	0.0189	54	414	0.260	0.0029	0.0029	0.0033	0.0035
17	47	0.264	0.0169	0.0169	C.0193	0.0204	55	415	0.260	0.0002	0.C002	0.0002	0.0002
18	48	0.264	0.0162	0.0162	0.0185	0.0196	56	416	0.259	-0.0006	-0.CC06	-0.0007	-0.CC07
19	49	0.264	0.0246	0.0246	0.0282	0.0297	57	417	0.259	-0.0005	-0.0005	-0.0006	-0.0006
20	50	0.263	0.0206	0.0206	C.0235	0.0248	58	418	0.258	-0.CC07	-0.0007	-0.0008	-0.0009
21	103	0.269	0.0737	0.0737	C.0844	0.0891	59	419	0.258	-0.0003	-0.CC03	-0.0004	-0.CC04
22	105	0.270	0.0735	0.0735	0.0841	0.0889	60	420	0.258	-0.0007	-0.CC07	-0.0007	-0.0008
23	107	0.269	0.0844	0.0844	0.0965	0.1020	61	506	0.265	0.0494	0.0494	0.0565	0.0597
24	108	0.268	0.0888	C.0888	0.1015	0.1072	62	507	0.264	0.0498	0.0498	0.0569	0.0601
25	110	0.267	0.0744	0.0744	0.0851	0.0899	63	508	0.264	0.0480	0.0480	0.0548	0.0579
26	111	0.266	0.0635	0.0635	0.0726	0.0767	64	509	0.263	0.0401	0.0401	0.0459	0.0484
27	112	0.265	0.0438	C.0438	C.0501	0.0528	65	510	0.263	0.0346	0.0346	0.0395	0.0417
28	113	0.264	0.0261	C.0261	C.0298	0.0315	66	511	0.262	0.0317	0.C317	0.0362	0.0382
29	114	0.263	0.0078	0.0078	0.0089	0.C094	67	512	0.262	0.0224	C.C224	0.0256	0.C270
30	115	0.262	0.0016	0.C016	0.0019	0.0020	68	513	0.261	0.0148	0.0148	0.0169	C.0178
31	203	0.266	0.0736	C.0736	C.0842	0.0889	69	514	0.261	0.0032	0.0032	0.0036	0.0038
32	205	0.267	0.0806	0.0806	0.0921	0.0973	70	515	0.260	0.0005	0.0005	0.0006	0.C006
33	207	0.267	C.0623	0.0623	0.0713	0.0753	71	516	0.260	-0.0000	-0.C000	-0.0000	-0.C000
34	208	0.266	0.0553	0.0553	C.0632	0.0668	72	517	0.259	-0.0004	-0.0004	-0.0005	-C.0005
35	210	0.265	0.0434	C.0434	C.0496	0.0524	73	518	0.259	-0.CC01	-0.0001	-0.0001	-0.C001
36	211	0.265	0.0369	0.0369	0.0422	0.0446	74	519	0.259	-0.0003	-0.CC03	-0.0004	-0.0004
37	212	0.264	C.0260	0.0260	0.0297	0.0313	75	520	0.259	0.0003	0.0003	0.0004	C.0004
38	213	0.288	-0.0001	-0.0001	-0.0001	-0.C001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	R-L	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	PS(METER)	HAW/HT	TEST NO. 182
5.10	3.2647E 06	9.9661E 05	0.305	10.21	1119.9	0.11830E 07	0.3048	1.000	RUN NO. 28
MACH	RE/FT	R-L	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9661E 04	9.9661E 05	1.000	150.04	2015.8	508.71	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	GS(W/CM2)	GS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	309.6	557.2	0.572	0.504	12.101	10.662	1.7928E-04	1.8925E-04	-0.009
2	17	338.7	609.7	0.000	0.000	11.669	10.282	1.3219E-15	1.3985E-15	*******
3	18	311.9	561.5	0.649	0.572	12.066	10.632	2.0415E-04	2.1554E-04	0.049
4	19	312.3	562.1	0.677	0.597	12.061	10.627	2.1302E-04	2.2492E-04	0.082
5	20	312.3	562.2	0.717	0.632	12.060	10.626	2.2545E-04	2.3804E-04	0.096
6	21	312.6	562.6	0.776	0.684	12.056	10.623	2.4414E-04	2.5778E-04	0.126
7	22	312.8	563.0	0.794	0.700	12.053	10.620	2.5007E-04	2.6404E-04	0.133
8	23	312.7	562.9	0.812	0.715	12.054	10.621	2.5542E-04	2.6969E-04	0.134
9	24	313.1	563.6	0.882	0.777	12.048	10.616	2.7774E-04	2.9326E-04	0.157
10	25	312.2	561.9	0.934	0.823	12.062	10.629	2.9384E-04	3.1024E-04	0.167
11	41	307.0	552.6	0.122	0.108	12.139	10.696	3.8258E-05	4.0379E-05	0.725
12	42	308.1	554.7	0.172	0.152	12.122	10.681	5.3861E-05	5.6852E-05	0.138
13	43	310.0	558.0	0.156	0.138	12.094	10.657	4.8941E-05	5.1665E-05	0.213
14	44	310.6	559.0	0.211	0.186	12.086	10.649	6.6150E-05	6.9835E-05	0.230
15	45	310.3	558.5	0.197	0.174	12.090	10.653	6.1891E-05	6.5338E-05	0.269
16	46	310.4	558.7	0.190	0.167	12.089	10.652	5.9561E-05	6.2878E-05	0.292
17	47	310.8	559.4	0.204	0.180	12.083	10.646	6.4101E-05	6.7673E-05	0.354
18	48	310.5	558.9	0.196	0.173	12.087	10.650	6.1512E-05	6.4938E-05	0.296
19	49	311.1	560.0	0.298	0.262	12.078	10.642	9.3441E-05	9.8650E-05	0.158
20	50	310.1	558.1	0.249	0.219	12.093	10.656	7.7983E-05	8.2324E-05	0.209
21	103	316.5	569.6	0.885	0.780	11.998	10.572	2.7986E-04	2.9558E-04	0.175
22	105	317.7	571.9	0.881	0.776	11.980	10.556	2.7913E-04	2.9484E-04	0.177
23	107	317.1	570.7	1.012	0.891	11.990	10.564	3.2024E-04	3.3824E-04	0.207
24	108	315.9	568.6	1.066	0.939	12.007	10.580	3.3691E-04	3.5582E-04	0.039
25	110	314.4	566.0	0.895	0.789	12.028	10.599	2.8245E-04	2.9827E-04	-0.093
26	111	313.8	564.9	0.764	0.674	12.038	10.607	2.4094E-04	2.5443E-04	0.026
27	112	312.5	562.5	0.528	0.465	12.057	10.624	1.6610E-04	1.7538E-04	0.295
28	113	311.5	560.7	0.315	0.277	12.072	10.637	9.8865E-05	1.0438E-04	0.449
29	114	310.0	557.9	0.094	0.083	12.095	10.657	2.9573E-05	3.1219E-05	0.557
30	115	308.6	555.4	0.020	0.017	12.116	10.676	6.1813E-06	6.5247E-06	0.286
31	203	313.8	564.8	0.886	0.781	12.038	10.607	2.7936E-04	2.9499E-04	0.156
32	205	314.6	566.3	0.969	0.854	12.026	10.596	3.0563E-04	3.2276E-04	0.151
33	207	314.2	565.6	0.750	0.661	12.032	10.602	2.3646E-04	2.4970E-04	0.141
34	208	313.4	564.1	0.666	0.587	12.044	10.612	2.0981E-04	2.2154E-04	C.C05
35	210	312.1	561.9	0.524	0.462	12.063	10.629	1.6475E-04	1.7395E-04	-0.123
36	211	311.6	560.8	0.446	0.393	12.071	10.636	1.4011E-04	1.4793E-04	-0.003
37	212	310.6	559.0	0.314	0.277	12.086	10.649	9.8525E-05	1.0401E-04	0.265
38	213	338.7	609.7	-0.001	-0.001	11.669	10.282	-2.0671E-07	-2.1869E-07	0.862
39	214	338.7	609.7	0.000	0.000	11.669	10.282	5.1802E-08	5.4806E-08	2.258
40	215	307.5	553.5	0.005	0.004	12.132	10.690	1.5131E-06	1.5971E-06	0.284
41	216	304.8	548.6	-0.032	-0.028	12.172	10.725	-1.0054E-05	-1.0610E-05	0.274
42	217	304.6	548.3	-0.023	-0.020	12.175	10.727	-7.0079E-06	-7.3951E-06	0.219
43	218	304.3	547.7	-0.019	-0.017	12.179	10.732	-5.9760E-06	-6.3060E-06	0.193
44	219	304.0	547.3	-0.020	-0.018	12.183	10.735	-6.2246E-06	-6.5682E-06	0.145
45	220	303.8	546.8	-0.019	-0.016	12.187	10.738	-5.8237E-06	-6.1451E-06	0.249
46	406	312.3	562.2	0.719	0.633	12.060	10.626	2.2603E-04	2.3865E-04	0.082
47	407	311.9	561.5	0.758	0.668	12.066	10.631	2.3821E-04	2.5151E-04	0.091
48	408	311.2	560.2	0.712	0.627	12.077	10.641	2.2368E-04	2.3615E-04	-0.041
49	409	310.6	559.1	0.637	0.561	12.086	10.649	1.9984E-04	2.1097E-04	-0.154
50	410	310.1	558.1	0.543	0.479	12.093	10.656	1.7037E-04	1.7986E-04	-0.115
51	411	309.6	557.3	0.462	0.407	12.100	10.662	1.4492E-04	1.5298E-04	-0.031
52	412	308.6	555.4	0.303	0.267	12.116	10.676	9.4923E-05	1.0020E-04	0.319
53	413	307.1	552.8	0.168	0.148	12.137	10.695	5.2483E-05	5.5393E-05	0.544
54	414	306.7	552.1	0.035	0.031	12.143	10.700	1.0985E-05	1.1593E-05	1.047
55	415	306.0	550.8	0.002	0.002	12.154	10.709	7.4397E-07	7.8516E-07	7.632
56	416	305.3	549.5	-0.007	-0.006	12.164	10.718	-2.1795E-06	-2.3000E-06	-1.397
57	417	304.8	548.6	-0.006	-0.005	12.172	10.725	-1.9318E-06	-2.0385E-06	-1.488
58	418	304.4	547.9	-0.009	-0.008	12.178	10.730	-2.6992E-06	-2.8483E-06	-0.239
59	419	304.2	547.5	-0.004	-0.004	12.181	10.733	-1.2627E-06	-1.3324E-06	-2.924
60	420	304.1	547.4	-0.008	-0.007	12.181	10.734	-2.4760E-06	-2.6127E-06	-0.931
61	506	311.9	561.5	0.596	0.526	12.066	10.631	1.8754E-04	1.9800E-04	0.011
62	507	311.4	560.5	0.602	0.530	12.073	10.638	1.8899E-04	1.9953E-04	-0.001
63	508	310.7	559.3	0.579	0.511	12.084	10.647	1.8190E-04	1.9204E-04	-0.085
64	509	309.7	557.5	0.485	0.428	12.099	10.660	1.5219E-04	1.6066E-04	-0.212
65	510	309.3	556.7	0.419	0.369	12.105	10.667	1.3118E-04	1.3847E-04	-0.181
66	511	309.0	556.1	0.384	0.338	12.110	10.670	1.2027E-04	1.2695E-04	-0.112
67	512	308.5	555.3	0.272	0.239	12.116	10.676	8.5052E-05	8.9776E-05	0.222
68	513	307.9	554.2	0.174	0.153	12.126	10.684	5.4663E-05	5.9175E-05	C.467
69	514	307.6	553.6	0.039	0.034	12.139	10.696	1.2078E-05	1.2748E-05	C.750
70	515	306.1	551.0	0.006	0.005	12.152	10.708	1.8835E-06	1.9877E-06	2.734
71	516	306.0	550.7	-0.000	-0.000	12.154	10.709	-2.4164E-08	-2.5501E-08	-97.860
72	517	305.5	549.9	-0.005	-0.004	12.161	10.715	-1.5613E-06	-1.6477E-06	C.186
73	518	305.3	549.5	-0.001	-0.001	12.165	10.719	-2.2340E-07	-2.3575E-07	-16.550
74	519	304.9	548.8	-0.004	-0.004	12.170	10.724	-1.2876E-06	-1.3587E-06	-1.465
75	520	304.5	548.2	0.004	0.004	12.176	10.728	1.2387E-06	1.3072E-06	5.615

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6624E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.834	8.001	7.827
PT2/PT1	5.221E-02	5.332E-02	5.217E-02
TEMP(DEG R)	2034.4	2106.7	2134.8
TT2/TT1	1.0092	1.0451	1.0590

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 29 FRAME 26 TC 51 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.1C	0.5200E 06	75.61	1974.66	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.432	1974.138	0.1C0	0.149	673.295	-0.260	17.6074
0.070	75.615	1974.136	0.1C0	0.152	672.319	-0.286	17.6155
0.140	75.615	1974.662	0.1C0	0.194	673.295	-0.286	17.6236
0.210	75.432	1974.660	0.1C3	0.473	677.193	-0.260	17.6074
0.280	75.615	1974.003	0.137	1.157	761.938	-0.260	17.6074
0.350	75.432	1974.269	0.495	1.989	1185.238	-0.260	17.5913
0.420	75.432	1974.265	1.438	2.607	1556.262	-0.286	17.6155
0.490	75.432	1974.790	2.470	3.204	1724.494	-0.286	17.6155
0.560	75.432	1974.921	3.053	3.643	1780.887	-0.273	17.6115
0.630	75.432	1973.870	3.424	3.838	1814.986	-0.260	17.6074
0.700	75.432	1974.136	3.683	3.782	1828.563	-0.260	17.6074
0.770	75.615	1974.134	3.858	3.559	1889.218	-0.286	33.6453
0.840	75.432	1974.527	3.953	3.363	1920.602	-0.273	34.9203
0.910	75.615	1974.657	3.964	3.280	1921.933	-0.273	34.9365
0.980	75.615	1973.869	3.927	3.252	1901.261	-0.286	34.9284
1.050	75.249	1974.135	3.900	3.271	1922.598	-0.286	34.9365
1.120	75.615	1974.134	3.900	3.333	1933.896	-0.299	34.9365
1.190	75.432	1974.525	3.908	3.391	1955.752	-0.286	34.9365
1.260	75.615	1974.263	3.919	3.433	1962.355	-0.273	34.9324
1.330	75.615	1973.606	3.916	3.447	1960.375	-0.286	34.9324
1.400	75.432	1974.000	3.911	3.461	1966.313	-0.260	34.9324
1.470	75.432	1974.000	3.927	3.469	1988.680	-0.299	34.9365
1.540	75.615	1974.656	3.927	3.475	1972.244	-0.286	34.9365
1.610	75.432	1974.654	3.916	3.486	1982.112	-0.286	34.9324
1.680	75.615	1973.475	3.922	3.497	1986.054	-0.286	34.9284
1.750	75.432	1973.506	3.924	3.492	1995.239	-0.286	34.9324

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7061E 06	5.2002E 05	0.305	5.14	1097.0	0.11565E 07	0.3048	1.000	RUN NO. 29
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.2002E 05	5.2002E 05	1.000	75.61	1974.7	497.34	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.270	0.0548	0.0548	0.0626	0.0662	39	214	0.294	0.0000	0.0000	0.0000	0.0000
2	17	0.294	-0.0000	-0.0000	-0.0000	-0.0000	40	215	0.270	0.0026	0.0026	0.0030	0.0031
3	18	0.271	0.0607	0.0607	0.0695	0.0734	41	216	0.268	0.0000	0.0000	0.0000	0.0000
4	19	0.271	0.0628	0.0628	0.0718	0.0759	42	217	0.268	0.0002	0.0002	0.0003	0.0003
5	20	0.272	0.0645	0.0645	0.0738	0.0779	43	218	0.268	0.0000	0.0000	0.0000	0.0000
6	21	0.272	0.0688	0.0688	0.0787	0.0832	44	219	0.268	0.0002	0.0002	0.0002	0.0002
7	22	0.272	0.0717	0.0717	0.0820	0.0867	45	220	0.268	-0.0004	-0.0004	-0.0005	-0.0005
8	23	0.272	0.0750	0.0750	0.0858	0.0907	46	406	0.272	0.0717	0.0717	0.0820	0.0867
9	24	0.272	0.0802	0.0802	0.0918	0.0970	47	407	0.272	0.0751	0.0751	0.0859	0.0908
10	25	0.271	0.0818	0.0818	0.0937	0.0989	48	408	0.272	0.0734	0.0734	0.0840	0.0887
11	41	0.269	0.0094	0.0094	0.0108	0.0114	49	409	0.271	0.0689	0.0689	0.0789	0.0833
12	42	0.270	0.0184	0.0184	0.0211	0.0223	50	410	0.271	0.0610	0.0610	0.0699	0.0738
13	43	0.271	0.0217	0.0217	0.0249	0.0263	51	411	0.271	0.0558	0.0558	0.0638	0.0674
14	44	0.271	0.0256	0.0256	0.0293	0.0309	52	412	0.270	0.0363	0.0363	0.0415	0.0438
15	45	0.271	0.0222	0.0222	0.0254	0.0268	53	413	0.270	0.0222	0.0222	0.0254	0.0269
16	46	0.271	0.0233	0.0233	0.0267	0.0282	54	414	0.269	0.0068	0.0068	0.0078	0.0083
17	47	0.271	0.0244	0.0244	0.0279	0.0295	55	415	0.269	0.0018	0.0018	0.0020	0.0021
18	48	0.271	0.0282	0.0282	0.0322	0.0340	56	416	0.269	-0.0001	-0.0001	-0.0001	-0.0001
19	49	0.271	0.0272	0.0272	0.0312	0.0329	57	417	0.268	0.0000	0.0000	0.0000	0.0000
20	50	0.270	0.0220	0.0220	0.0252	0.0266	58	418	0.268	-0.0005	-0.0005	-0.0006	-0.0007
21	103	0.274	0.0788	0.0788	0.0902	0.0953	59	419	0.268	-0.0003	-0.0003	-0.0003	-0.0003
22	105	0.275	0.0783	0.0783	0.0896	0.0947	60	420	0.268	-0.0004	-0.0004	-0.0004	-0.0004
23	107	0.274	0.0878	0.0878	0.1005	0.1062	61	506	0.272	0.0658	0.0658	0.0753	0.0795
24	108	0.274	0.0901	0.0901	0.1032	0.1090	62	507	0.271	0.0612	0.0612	0.0700	0.0740
25	110	0.273	0.0754	0.0754	0.0863	0.0912	63	508	0.271	0.0580	0.0580	0.0663	0.0701
26	111	0.273	0.0645	0.0645	0.0738	0.0780	64	509	0.271	0.0505	0.0505	0.0578	0.0611
27	112	0.272	0.0460	0.0460	0.0527	0.0556	65	510	0.270	0.0452	0.0452	0.0517	0.0546
28	113	0.272	0.0289	0.0289	0.0330	0.0349	66	511	0.270	0.0426	0.0426	0.0487	0.0515
29	114	0.271	0.0117	0.0117	0.0134	0.0142	67	512	0.270	0.0324	0.0324	0.0371	0.0392
30	115	0.270	0.0020	0.0020	0.0023	0.0025	68	513	0.270	0.0225	0.0225	0.0258	0.0272
31	203	0.273	0.0779	0.0779	0.0892	0.0943	69	514	0.269	0.0070	0.0070	0.0080	0.0084
32	205	0.273	0.0886	0.0886	0.1015	0.1072	70	515	0.269	0.0013	0.0013	0.0014	0.0015
33	207	0.273	0.0887	0.0887	0.1016	0.1073	71	516	0.269	0.0002	0.0002	0.0002	0.0002
34	208	0.273	0.0796	0.0796	0.0911	0.0962	72	517	0.269	-0.0009	-0.0009	-0.0010	-0.0011
35	210	0.272	0.0636	0.0636	0.0728	0.0769	73	518	0.269	-0.0019	-0.0019	-0.0022	-0.0023
36	211	0.272	0.0555	0.0555	0.0635	0.0671	74	519	0.268	-0.0000	-0.0000	-0.0001	-0.0001
37	212	0.271	0.0414	0.0414	0.0474	0.0501	75	520	0.268	-0.0004	-0.0004	-0.0005	-0.0005
38	213	0.294	-0.0001	-0.0001	-0.0001	-0.0001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7061E 06	5.2002E 05	0.305	9.14	1097.0	0.1155E 07	0.3048	1.000	RUN NO. 29
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.2002E 05	5.2002E 05	1.000	75.61	1974.7	497.34	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	16	310.9	559.6	0.455	0.401	8.317	7.328	2.8844E-04	3.0467E-04	0.134
2	17	338.7	609.7	-0.000	-0.000	8.025	7.071	-3.7908E-16	-4.0130E-16	*******
3	18	312.5	562.4	0.504	0.444	8.300	7.314	3.1994E-04	3.3799E-04	0.164
4	19	312.6	562.7	0.521	0.459	8.299	7.312	3.3069E-04	3.4935E-04	0.168
5	20	312.7	562.8	0.535	0.471	8.298	7.311	3.3965E-04	3.5882E-04	0.166
6	21	312.8	563.0	0.571	0.503	8.297	7.311	3.6252E-04	3.8299E-04	0.173
7	22	312.8	563.1	0.595	0.524	8.296	7.310	3.7769E-04	3.9900E-04	0.184
8	23	312.7	562.9	0.622	0.548	8.297	7.311	3.9517E-04	4.1747E-04	0.189
9	24	312.9	563.1	0.665	0.586	8.296	7.310	4.2266E-04	4.4652E-04	0.189
10	25	312.4	562.3	0.679	0.599	8.301	7.315	4.3116E-04	4.5549E-04	0.181
11	41	309.8	557.6	0.079	0.069	8.329	7.339	4.9671E-05	5.2463E-05	0.798
12	42	310.5	558.9	0.153	0.135	8.321	7.332	9.7009E-05	1.0247E-04	0.298
13	43	311.6	560.9	0.181	0.159	8.309	7.321	1.1449E-04	1.2094E-04	0.296
14	44	312.0	561.6	0.213	0.187	8.305	7.318	1.3487E-04	1.4248E-04	0.313
15	45	311.9	561.3	0.184	0.162	8.307	7.319	1.1686E-04	1.2344E-04	0.339
16	46	311.8	561.3	0.194	0.171	8.307	7.320	1.2300E-04	1.2993E-04	0.325
17	47	311.9	561.3	0.202	0.178	8.307	7.319	1.2838E-04	1.3561E-04	0.151
18	48	311.7	561.1	0.234	0.206	8.308	7.320	1.4839E-04	1.5675E-04	0.059
19	49	312.0	561.5	0.226	0.199	8.305	7.318	1.4354E-04	1.5164E-04	0.097
20	50	311.4	560.5	0.183	0.161	8.312	7.324	1.1589E-04	1.2242E-04	0.331
21	103	315.6	568.0	0.651	0.574	8.268	7.285	4.1532E-04	4.3886E-04	0.200
22	105	316.3	569.3	0.647	0.570	8.260	7.278	4.1256E-04	4.3596E-04	0.198
23	107	315.9	568.6	0.725	0.639	8.264	7.282	4.6266E-04	4.8889E-04	0.215
24	108	315.2	567.4	0.745	0.657	8.271	7.288	4.7695E-04	5.0186E-04	0.038
25	110	314.3	565.8	0.624	0.550	8.280	7.296	3.9717E-04	4.1964E-04	-0.162
26	111	314.0	565.3	0.534	0.471	8.284	7.299	3.3970E-04	3.5890E-04	-0.088
27	112	313.2	563.8	0.381	0.336	8.292	7.306	2.4241E-04	2.5610E-04	0.176
28	113	312.7	562.8	0.239	0.211	8.298	7.312	1.5204E-04	1.6063E-04	0.358
29	114	311.8	561.2	0.097	0.086	8.308	7.320	6.1741E-05	6.5221E-05	0.702
30	115	310.8	559.5	0.017	0.015	8.317	7.329	1.0783E-05	1.1390E-05	0.179
31	203	314.3	565.7	0.645	0.569	8.281	7.297	4.1066E-04	4.3389E-04	0.202
32	205	314.7	566.5	0.734	0.646	8.277	7.293	4.6712E-04	4.9356E-04	0.188
33	207	314.5	566.2	0.734	0.647	8.278	7.294	4.6758E-04	4.9403E-04	0.200
34	208	314.0	565.3	0.659	0.581	8.284	7.299	4.1926E-04	4.4297E-04	0.093
35	210	313.3	563.9	0.528	0.465	8.291	7.306	3.3529E-04	3.5423E-04	-0.048
36	211	313.0	563.4	0.460	0.406	8.294	7.308	2.9243E-04	3.0894E-04	0.020
37	212	312.4	562.3	0.344	0.303	8.301	7.314	2.1815E-04	2.3046E-04	0.214
38	213	338.7	609.7	-0.001	-0.001	8.025	7.071	-5.2257E-07	-5.5321E-07	1.249
39	214	338.7	609.7	0.000	0.000	8.025	7.071	2.0933E-07	2.2160E-07	0.993
40	215	310.6	559.1	0.021	0.019	8.320	7.331	1.3591E-05	1.4356E-05	0.102
41	216	309.0	556.1	0.000	0.000	8.337	7.346	1.5058E-07	1.5903E-07	18.786
42	217	308.9	556.0	0.002	0.002	8.338	7.347	1.2519E-06	1.3221E-06	4.653
43	218	308.7	555.6	0.000	0.000	8.340	7.349	2.0200E-07	2.1334E-07	26.488
44	219	308.5	555.3	0.001	0.001	8.342	7.350	8.5554E-07	9.0776E-07	7.463
45	220	308.2	554.8	-0.004	-0.003	8.345	7.353	-2.2752E-06	-2.4028E-06	-0.973
46	406	313.4	564.1	0.594	0.523	8.290	7.305	3.7761E-04	3.9894E-04	0.186
47	407	313.2	563.7	0.623	0.549	8.293	7.307	3.9566E-04	4.1800E-04	0.188
48	408	312.8	563.0	0.609	0.536	8.297	7.311	3.8651E-04	4.0833E-04	0.095
49	409	312.4	562.4	0.572	0.504	8.300	7.314	3.6304E-04	3.8353E-04	0.014
50	410	312.1	561.8	0.507	0.447	8.306	7.317	3.2160E-04	3.3973E-04	0.028
51	411	311.9	561.4	0.463	0.408	8.306	7.319	2.9375E-04	3.1031E-04	0.139
52	412	311.3	560.3	0.301	0.266	8.312	7.324	1.9101E-04	2.0177E-04	0.326
53	413	310.4	558.8	0.185	0.163	8.322	7.333	1.1711E-04	1.2369E-04	0.475
54	414	310.3	558.5	0.057	0.050	8.323	7.334	3.6001E-05	3.8025E-05	0.654
55	415	309.9	557.9	0.015	0.013	8.327	7.337	9.3227E-06	9.8468E-06	1.040
56	416	309.5	557.2	-0.001	-0.000	8.331	7.341	-3.5104E-07	-3.7077E-07	-8.737
57	417	309.2	556.5	0.000	0.000	8.335	7.344	1.0114E-07	1.0682E-07	40.035
58	418	309.0	556.1	-0.005	-0.004	8.337	7.346	-2.8556E-06	-3.0159E-06	0.237
59	419	308.8	555.8	-0.002	-0.002	8.339	7.348	-1.4029E-06	-1.4816E-06	-1.435
60	420	308.7	555.7	-0.003	-0.003	8.340	7.348	-1.8534E-06	-1.9574E-06	-0.629
61	506	312.9	563.2	0.446	0.381	8.296	7.310	3.4650E-04	3.6606E-04	0.175
62	507	312.6	562.7	0.508	0.447	8.299	7.312	3.2229E-04	3.4047E-04	0.137
63	508	312.2	562.0	0.481	0.424	8.303	7.316	3.0540E-04	3.2262E-04	0.071
64	509	311.7	561.0	0.420	0.370	8.308	7.321	2.6611E-04	2.8111E-04	-0.045
65	510	311.4	560.5	0.376	0.331	8.312	7.324	2.3819E-04	2.5161E-04	-0.027
66	511	311.3	560.3	0.354	0.312	8.313	7.324	2.2441E-04	2.3705E-04	0.015
67	512	311.0	559.4	0.270	0.238	8.315	7.327	1.7082E-04	1.8044E-04	0.262
68	513	310.8	559.4	0.187	0.165	8.318	7.329	1.1864E-04	1.2532E-04	0.434
69	514	310.3	558.5	0.058	0.051	8.323	7.334	3.6804E-05	3.8874E-05	0.590
70	515	309.6	557.3	0.011	0.009	8.330	7.340	6.6651E-06	7.0396E-06	0.467
71	516	309.7	557.5	0.002	0.001	8.329	7.339	1.0025E-06	1.0588E-06	0.108
72	517	309.5	557.1	-0.008	-0.007	8.331	7.341	-4.7599E-06	-5.0273E-06	1.427
73	518	309.3	556.8	-0.016	-0.014	8.333	7.343	-9.9684E-06	-1.0529E-05	1.462
74	519	309.1	556.4	-0.000	-0.000	8.335	7.345	-2.5024E-07	-2.6429E-07	-3.203
75	520	308.8	555.8	-0.003	-0.003	8.339	7.348	-2.1538E-06	-2.2747E-06	0.860

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3629E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.666	3.524	3.492
PT2/PT1	4.848E-02	5.140E-02	4.818E-02
TEMP(DEG R)	1922.6	1995.2	2039.6
TT2/TT1	0.9736	1.0104	1.0329

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

8.5 FT. HI DATA TEST NO. 102 RUN NO. 30 FRAME 25 TO 52 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT	PI(PSI)	TT(DEG R)	RS(FT)
C.C	C.C	C.C	0 0 8 1	5.1C	0.9831E C6	15C.04	2032.25	1.CCCC

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
C.CCC	149.856	2C31.726	0.15C	0.149	732.421	-0.286	17.6074
C.C7C	149.856	2C32.508	0.15C	0.15E	731.488	-C.28C	17.6115
C.140	149.856	2C31.726	0.147	0.2CC	733.353	-C.299	17.6236
C.210	149.856	2C32.763	0.150	0.613	740.787	-0.286	17.6155
C.28C	149.856	2C32.375	0.152	1.833	EC5.C54	-C.28E	17.6074
C.35C	150.C39	2C31.596	0.748	3.48E	1259.342	-C.273	17.6034
C.42C	149.3C7	2C32.247	2.629	4.559	1721.729	-C.299	17.6074
C.49C	149.856	2C32.117	4.817	6.519	1865.C81	-C.312	17.6155
C.56C	149.856	2C32.636	6.316	7.566	1915.54C	-0.295	17.6155
C.63C	150.C39	2C33.C26	7.281	7.935	1942.517	-C.286	17.6115
C.7CC	150.C39	2C31.856	7.824	7.645	1962.355	-C.299	18.3175
C.77C	150.C39	2C32.249	8.C54	7.555	2010.250	-0.312	34.9082
C.84C	149.856	2C32.118	8.C81	7.36C	2045.444	-C.299	34.9324
C.91C	150.C39	2C32.249	8.C36	7.332	2C59.C47	-C.295	34.9324
C.98C	150.C39	2C32.766	7.983	7.415	2048.687	-C.312	34.9324
1.C5C	150.C39	2C31.987	7.951	7.516	2051.927	-C.28E	34.9284
1.12C	149.856	2C32.249	7.943	7.6CE	2CEE.8C3	-C.295	34.9324
1.19C	149.856	2C32.117	7.951	7.695	2C9C.641	-C.312	34.9324
1.26C	149.856	2C32.249	7.957	7.734	2083.566	-C.299	34.9365
1.33C	149.856	2C32.894	7.957	7.764	20E6.14C	-C.312	34.9324
1.4CC	15C.C39	2C32.245	7.951	7.795	2C57.1C6	-C.295	34.9243
1.47C	149.856	2C31.857	7.922	7.834	2C57.753	-C.295	34.9324
1.54C	149.856	2C32.247	7.927	7.8E2	2082.27E	-C.299	34.9324
1.61C	149.856	2C32.376	7.938	7.91C	20EE.712	-C.312	34.9324
1.68C	149.856	2C32.894	7.943	7.918	20E3.566	-C.295	34.9324
1.75C	15C.C39	2C31.595	7.93C	7.935	2C81.635	-C.295	34.9284
1.82C	149.3C7	2C31.597	7.93C	7.54C	2C95.76C	-C.312	34.9284
1.89C	15C.C39	2C32.246	7.943	7.971	2C92.568	-C.299	34.9324

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	REYNETER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
6.10	8.2288E 06	9.83CBE 05	C.3C5	10.21	1129.C	0.11936E 07	0.3048	1.COO	RUN NO.	30
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT			
6.1C	5.83C8T 05	9.83CBE 05	1.CCO	15C.04	2C32.2	513.25	1.CCCC	1.CCO		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.CCO)	H/HS(C.908)	H/HS(C.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.CCO)	H/HS(0.908)	H/HS(0.874)
1	16	C.281	C.0441	C.0441	C.C5C3	C.C531	36	214	C.285	-C.CCCC	-C.CCCC	-C.CCCC	-C.CCCC
2	17	C.285	C.CCCC	C.CCCC	C.CCCC	C.CCCC	4C	215	C.257	C.C1CC	C.C1CC	C.C114	C.C121
3	18	C.268	C.C485	C.C485	C.C554	C.C585	41	216	C.255	C.C043	C.C043	C.C049	C.C052
4	19	C.262	C.C514	C.C514	C.C587	C.C62C	42	217	C.255	C.C023	C.C023	C.C026	C.C027
5	2C	C.263	C.C56C	C.C56C	C.C64C	C.C676	43	218	C.254	C.CCC6	C.CCC6	C.CCC7	C.CCC7
6	21	C.283	C.C63C	C.C63C	C.C72C	C.C76C	44	219	C.254	-C.CCC1	-C.CCC1	-C.CCC1	-C.CCC1
7	22	C.268	C.C68C	C.C68C	C.C777	C.C82C	45	22C	C.254	-C.CC12	-C.CC12	-C.CC14	-C.CC14
8	23	C.262	C.C732	C.C732	C.C83E	C.C883	46	4C6	C.261	C.C485	C.C485	C.C554	C.C585
9	24	C.284	C.C781	C.C781	C.C893	C.C942	47	4C7	C.261	C.C488	C.C488	C.C557	C.C588
1C	25	C.262	C.C786	C.C786	C.C85E	C.C947	4E	4C8	C.26C	C.C48C	C.C46C	C.C526	C.C555
11	41	C.258	C.C086	C.C086	C.CC95	C.C103	45	4C9	C.26C	C.C419	C.C419	C.C479	C.C505
12	42	C.256	C.C177	C.C177	C.C2C2	C.C213	5C	41C	C.26C	C.C361	C.C361	C.C412	C.C435
13	43	C.261	C.C136	C.C136	C.C155	C.C164	51	411	C.259	C.C3C7	C.C3C7	C.C351	C.C37C
14	44	C.262	C.C137	C.C137	C.C156	C.C165	52	412	C.25E	C.C197	C.C197	C.C225	C.C237
15	45	C.261	C.C186	C.C186	C.C212	C.C224	53	413	C.257	C.C1C8	C.C1C8	C.C123	C.C13C
16	46	C.261	C.C26C	C.C26C	C.C297	C.C314	54	414	C.257	C.CC25	C.CC25	C.CC29	C.CC3C
17	47	C.262	C.C345	C.C345	C.C394	C.C415	55	415	C.256	-C.CCC2	-C.CCC2	-C.CCC2	-C.CCC3
18	48	C.262	C.C436	C.C436	C.C5C2	C.C53C	56	416	C.266	-C.CCC4	-C.CCC4	-C.CCC5	-C.CCC5
19	49	C.262	C.C33C	C.C33C	C.C377	C.C398	57	417	C.255	-C.CCC5	-C.CCC5	-C.CCC6	-C.CCC7
2C	5C	C.261	C.C185	C.C185	C.C211	C.C223	58	4N6	C.255	C.CCCC	C.CCCC	C.CCCC	C.CCCC
21	1C3	C.283	C.C747	C.C747	C.C853	C.C9C1	59	419	C.255	-C.CCC2	-C.CCC2	-C.CCC3	-C.CCC3
22	1C5	C.284	C.C749	C.C749	C.C85E	C.C9C4	6C	42C	C.255	-C.CCC7	-C.CCC7	-C.CCC8	-C.CCC8
23	1C7	C.266	C.C92C	C.C92C	C.1C52	C.1111	61	5C6	C.261	C.C494	C.C494	C.C565	C.C596
24	1CE	C.265	C.1C69	C.1C69	C.1222	C.129C	62	5C7	C.261	C.C48C	C.C48C	C.C548	C.C578
25	11C	C.284	C.C975	C.C975	C.1114	C.1177	63	5C8	C.26C	C.C481	C.C481	C.C549	C.C58C
26	111	C.283	C.C85C	C.C85C	C.C931	C.1C28	64	5C9	C.26C	C.C427	C.C427	C.C488	C.C515
27	112	C.262	C.C6C8	C.C6C8	C.C695	C.C733	65	51C	C.259	C.C374	C.C374	C.C427	C.C451
28	113	C.261	C.C371	C.C371	C.C424	C.C447	66	511	C.259	C.C36C	C.C36C	C.C412	C.C434
29	114	C.26C	C.C1C7	C.C1C7	C.C122	C.C129	67	512	C.259	C.C272	C.C272	C.C311	C.C328
3C	115	C.256	C.CC21	C.CC21	C.CC24	C.CC26	6E	513	C.25E	C.C191	C.C191	C.C218	C.C23C
31	2C3	C.262	C.C767	C.C767	C.C877	C.C925	69	514	C.25E	C.C065	C.C065	C.C074	C.C078
32	2C5	C.263	C.C981	C.C981	C.1121	C.1183	7C	515	C.257	C.CC12	C.CC12	C.CC14	C.CC14
33	2C7	C.263	C.1C3E	C.1C3E	C.118E	C.1252	71	516	C.257	C.CCC8	C.CCC8	C.CC1C	C.CC1C
34	2CE	C.262	C.1C34	C.1034	C.1182	C.1247	72	517	C.256	C.CCC1	C.CCC1	C.CCC1	C.CCC1
35	21C	C.261	C.C892	C.C892	C.1C15	C.1075	73	518	C.256	C.CCC4	C.CCC4	C.CCC5	C.CCC5
36	211	C.261	C.C793	C.C793	C.C9C5	C.C956	74	519	C.256	C.CCC1	C.CCC1	C.CCC1	C.CCC1
37	212	C.26C	C.C618	C.C618	C.C7C6	C.C745	75	52C	C.255	-C.CCC9	-C.CCC9	-C.CC1C	-C.CC11
38	213	C.285	C.CCC1	C.CCC1	C.CCC1	C.CCC1							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	PARAMETER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(MET./FT)	PAW/PT	TEST NO. 182
5.10	3.22532E 06	9.83088E 05	0.305	10.21	1125.0	0.11536E 07	0.3048	1.000	RUN NO. 30
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	PAW/PT	
5.10	9.83088E 05	9.83088E 05	1.000	150.04	2032.2	513.25	1.0000	1.000	

CHAN	T/C	TW(DEG R)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	305.6	551.3	C.539	C.475	12.246	10.790	1.6800E-04	1.7731E-04	C.020
2	17	338.7	609.7	0.000	C.000	11.615	10.410	6.2621E-16	6.6236E-16	*******
3	18	312.5	562.4	C.591	C.521	12.204	10.753	1.8489E-04	1.9518E-04	0.067
4	19	312.5	562.6	C.627	C.553	12.202	10.752	1.9606E-04	2.0697E-04	0.072
5	20	312.6	562.6	C.684	C.603	12.202	10.751	2.1380E-04	2.2569E-04	C.115
6	21	312.5	563.2	C.769	C.677	12.197	10.747	2.4046E-04	2.5384E-04	C.156
7	22	312.5	563.2	C.829	C.731	12.197	10.747	2.5936E-04	2.738CE-04	0.180
8	23	312.5	563.2	C.892	C.786	12.198	10.748	2.7610E-04	2.9463E-04	0.199
9	24	313.1	563.3	C.952	C.839	12.193	10.744	2.9797E-04	3.1456E-04	C.205
10	25	311.9	561.3	0.959	0.845	12.212	10.761	2.9967E-04	3.1633E-04	0.190
11	41	307.1	552.8	C.105	C.093	12.283	10.823	3.2888E-05	3.4493E-05	0.807
12	42	306.2	554.7	C.217	C.191	12.267	10.809	6.7436E-05	7.1167E-05	-0.064
13	43	310.6	559.1	C.166	C.147	12.231	10.777	5.1918E-05	5.4800E-05	C.118
14	44	310.5	559.7	0.167	0.147	12.226	10.773	5.2139E-05	5.5034E-05	0.088
15	45	310.6	559.1	0.228	0.200	12.231	10.777	7.0948E-05	7.4886E-05	-0.080
16	46	310.3	559.3	C.318	C.281	12.229	10.776	9.9289E-05	1.048CE-04	-0.135
17	47	310.5	559.6	0.421	C.371	12.226	10.773	1.3141E-04	1.3871E-04	-0.030
18	48	310.8	559.5	0.537	0.473	12.228	10.774	1.6759E-04	1.7689E-04	0.070
19	49	311.1	560.0	C.404	C.356	12.223	10.770	1.2559E-04	1.3298E-04	0.081
20	50	309.5	557.8	0.227	0.200	12.242	10.787	7.0577E-05	7.4490E-05	0.341
21	103	314.3	565.8	C.909	C.801	12.176	10.728	2.8488E-04	3.0077E-04	C.213
22	105	315.9	568.7	0.910	0.802	12.152	10.708	2.8568E-04	3.0166E-04	0.223
23	107	315.7	568.2	1.118	C.986	12.156	10.711	3.5110E-04	3.7073E-04	0.280
24	108	314.8	566.3	1.301	1.146	12.172	10.725	4.0777E-04	4.3053E-04	0.118
25	110	313.4	564.1	1.189	1.047	12.190	10.741	3.7204E-04	3.9277E-04	-C.117
26	111	312.8	563.0	1.037	C.914	12.199	10.749	3.2426E-04	3.4231E-04	-0.048
27	112	311.5	560.7	C.743	C.655	12.218	10.765	2.3191E-04	2.448CE-04	0.209
28	113	310.5	558.9	C.454	C.4CC	12.232	10.779	1.4148E-04	1.4934E-04	0.379
29	114	308.6	555.8	C.131	C.116	12.258	10.801	4.0796E-05	4.3055E-05	C.452
30	115	307.8	553.1	0.026	0.023	12.280	10.821	8.1100E-06	8.5580E-06	0.188
31	203	311.1	560.1	0.938	C.826	12.223	10.770	2.9266E-04	3.0892E-04	0.226
32	205	312.2	561.9	1.198	1.055	12.208	10.757	3.7425E-04	3.9506E-04	0.231
33	207	312.6	561.5	1.267	1.117	12.211	10.759	3.9587E-04	4.1788E-04	C.251
34	208	311.3	560.4	1.264	1.114	12.220	10.768	3.9452E-04	4.1644E-04	0.128
35	210	310.2	558.3	1.091	C.962	12.237	10.783	3.4018E-04	3.5905E-04	-0.093
36	211	309.6	557.4	C.971	C.855	12.245	10.790	3.0234E-04	3.1909E-04	-0.051
37	212	308.6	555.5	C.758	C.668	12.260	10.803	2.3586E-04	2.4891E-04	C.125
38	213	308.7	609.7	0.001	C.001	11.814	10.410	3.0774E-07	3.2551E-07	1.408
39	214	338.7	609.7	-C.000	-C.000	11.614	10.410	-1.0293E-07	-1.0887E-07	0.584
40	215	309.6	550.1	C.123	C.109	12.306	10.843	3.8195E-05	4.0301E-05	-C.200
41	216	307.7	544.9	C.053	C.047	12.348	10.880	1.6254E-05	1.7152E-05	-C.238
42	217	307.5	544.4	0.028	0.025	12.352	10.884	8.6786E-06	9.1549E-06	-C.163
43	218	307.1	543.7	C.CC7	C.CC6	12.358	10.889	2.2016E-06	2.3299E-06	-0.617
44	219	307.8	543.2	-C.CC1	-C.CC1	12.362	10.893	-3.7242E-07	-3.9285E-07	-3.748
45	220	307.5	542.7	-C.C13	-C.C13	12.366	10.896	-4.5152E-06	-4.7627E-06	C.268
46	406	310.4	558.7	0.593	C.523	12.234	10.780	1.8500E-04	1.9527E-04	0.034
47	407	310.2	558.4	C.597	C.526	12.237	10.782	1.8605E-04	1.9642E-04	0.040
48	408	309.5	557.2	C.564	C.497	12.247	10.791	1.7559E-04	1.8523E-04	-0.068
49	409	309.1	556.4	C.514	C.453	12.253	10.797	1.5986E-04	1.6871E-04	-C.176
50	410	308.8	555.8	0.442	C.390	12.260	10.803	1.3751E-04	1.4512E-04	-0.176
51	411	308.2	554.7	C.377	C.332	12.267	10.809	1.17CEE-04	1.2356E-04	-0.119
52	412	307.1	552.8	C.242	C.213	12.283	10.823	7.5106E-05	7.9254E-05	0.148
53	413	305.8	550.5	C.133	C.117	12.302	10.840	4.1248E-05	4.3522E-05	C.316
54	414	305.5	549.9	0.031	C.027	12.307	10.844	9.6528E-06	1.0185E-05	C.344
55	415	304.7	548.5	-0.CC3	-C.CC2	12.318	10.854	-8.1166E-C7	-8.5655E-07	1.356
56	416	303.8	546.9	-C.CC5	-C.CC4	12.332	10.866	-1.525CE-06	-1.6089E-06	-1.396
57	417	303.1	545.7	-C.CC7	-C.CC6	12.342	10.875	-2.0900E-06	-2.2048E-06	-C.318
58	418	302.8	545.0	0.000	C.000	12.347	10.879	9.8057E-08	1.0344E-07	36.215
59	419	302.7	544.9	-C.CC3	-C.CC2	12.349	10.881	-8.3620E-C7	-8.8211E-07	-4.081
60	420	302.5	544.5	-C.CC8	-C.CC7	12.352	10.884	-2.532CE-06	-2.671CE-06	-0.285
61	506	310.6	559.2	C.605	C.533	12.230	10.777	1.8855E-04	1.9901E-04	C.042
62	507	310.2	558.3	0.587	0.517	12.238	10.783	1.8290E-04	1.9305E-04	C.034
63	508	309.5	557.2	C.589	C.519	12.247	10.791	1.8344E-04	1.9360E-04	-0.011
64	509	308.9	555.3	C.524	C.462	12.262	10.805	1.6297E-04	1.7199E-04	-0.147
65	510	307.2	554.7	C.459	C.4C4	12.267	10.809	1.4267E-04	1.5056E-04	-C.185
66	511	307.8	554.1	0.442	C.390	12.272	10.814	1.3744E-04	1.4504E-04	-0.113
67	512	307.5	553.5	C.334	C.294	12.277	10.818	1.0377E-04	1.0951E-04	0.148
68	513	306.5	552.5	C.235	C.2C7	12.286	10.826	7.2933E-05	7.696CE-05	0.356
69	514	306.0	550.6	0.080	C.C7C	12.299	10.837	2.4709E-05	2.6072E-05	C.546
70	515	305.2	549.4	0.015	C.013	12.311	10.848	4.5298E-06	4.7793E-06	C.080
71	516	305.2	549.4	C.C10	C.CC9	12.311	10.848	3.2251E-C6	3.4028E-06	0.496
72	517	304.8	548.7	C.CC1	C.CC1	12.320	10.856	1.9655E-07	2.0737E-07	-17.675
73	518	304.4	547.9	C.CC5	C.CC5	12.324	10.859	1.6983E-06	1.7918E-06	C.541
74	519	304.0	547.2	0.CC1	C.CC1	12.329	10.864	2.4602E-07	2.5955E-07	C.312
75	520	303.4	546.1	-C.C11	-C.C10	12.335	10.872	-3.3442E-C6	-3.528CE-06	0.259

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6462E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSIA)	8.112	7.948	7.971
PT2/PT1	5.406E-02	5.294E-02	5.313E-02
TEMPDEG R)	2027.9	2092.6	2156.4
T12/T11	0.9979	1.0297	1.0611

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 162 RUN NO. 31 FRAME 27 TO 51 CONSTANT SET 691

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10 0.1053E 07	149.65	1948.03	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.652	1947.239	0.165	0.209	701.288	-0.287	17.6110
0.070	149.652	1948.296	0.165	0.218	701.288	-0.287	17.6150
0.140	149.652	1948.164	0.163	0.282	702.242	-0.274	17.6110
0.210	149.652	1947.503	0.168	0.829	708.903	-0.261	17.6110
0.280	149.652	1947.898	0.213	2.115	777.369	-0.287	17.6110
0.350	149.469	1947.503	0.712	3.687	1222.810	-0.287	17.6110
0.420	149.652	1948.296	2.316	4.895	1652.358	-0.287	17.6110
0.490	149.652	1948.428	4.583	6.221	1871.770	-0.287	17.6150
0.560	150.201	1947.504	6.162	7.284	1939.203	-0.274	17.6110
0.630	149.652	1947.767	6.955	7.806	1962.355	-0.287	17.6069
0.700	149.652	1948.031	7.491	7.881	1984.740	-0.300	17.6150
0.770	149.652	1948.559	7.871	7.697	1982.112	-0.287	34.0194
0.840	149.652	1948.694	8.022	7.396	1978.167	-0.287	34.9314
0.910	149.652	1948.033	8.022	7.231	1991.960	-0.287	34.9153
0.980	149.469	1947.107	7.990	7.250	1997.204	-0.287	34.9314
1.050	149.652	1947.768	7.989	7.337	2000.479	-0.300	34.9354
1.120	149.652	1948.958	7.953	7.451	2011.596	-0.313	34.9354
1.190	149.469	1949.355	7.981	7.555	2014.861	-0.287	34.9314
1.260	149.652	1948.824	7.953	7.622	2021.385	-0.287	34.9314
1.330	149.652	1948.430	7.963	7.669	2024.643	-0.287	34.9314
1.400	149.652	1948.693	7.966	7.689	2027.899	-0.300	34.9354
1.470	149.652	1949.222	7.961	7.733	2033.755	-0.287	34.9354
1.540	150.201	1949.221	7.969	7.758	2034.405	-0.267	34.9354
1.610	149.652	1949.090	7.961	7.761	2033.755	-0.287	34.9314
1.680	149.652	1948.428	7.961	7.733	2044.147	-0.300	34.9314

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.4544E 06	1.0529E 06	0.305	10.18	1082.2	0.11395E 07	0.3048	1.000	RUN NO. 31
MACH	RE/FT	REL	LENGTH(FT)	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0529E 06	1.0529E 06	1.000	149.65	1948.0	490.01	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	C/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.264	0.0456	0.0456	0.0521	0.0550	39	214	0.299	-0.0000	-0.0000	-0.0000	-0.0000
2	17	0.299	0.0000	0.0000	0.0000	0.0000	40	215	0.263	0.0040	0.0040	0.0045	0.0048
3	18	0.267	0.0513	0.0513	0.0587	0.0620	41	216	0.261	0.0016	0.0016	0.0018	0.0019
4	19	0.267	0.0544	0.0544	0.0622	0.0657	42	217	0.261	0.0007	0.0007	0.0008	0.0009
5	20	0.268	0.0569	0.0569	0.0651	0.0687	43	218	0.260	0.0000	0.0000	0.0001	0.0001
6	21	0.268	0.0608	0.0608	0.0696	0.0735	44	219	0.260	0.0003	0.0003	0.0004	0.0004
7	22	0.268	0.0641	0.0641	0.0733	0.0774	45	220	0.260	0.0011	0.0011	0.0013	0.0014
8	23	0.268	0.0666	0.0666	0.0762	0.0804	46	406	0.267	0.0538	0.0538	0.0616	0.0650
9	24	0.268	0.0705	0.0705	0.0806	0.0851	47	407	0.267	0.0579	0.0579	0.0663	0.0700
10	25	0.267	0.0702	0.0702	0.0803	0.0848	48	408	0.267	0.0572	0.0572	0.0654	0.0690
11	41	0.262	0.0103	0.0103	0.0118	0.0124	49	409	0.266	0.0518	0.0518	0.0592	0.0625
12	42	0.263	0.0180	0.0180	0.0206	0.0217	50	410	0.266	0.0445	0.0445	0.0509	0.0537
13	43	0.266	0.0144	0.0144	0.0164	0.0173	51	411	0.265	0.0361	0.0361	0.0412	0.0435
14	44	0.266	0.0159	0.0159	0.0182	0.0192	52	412	0.264	0.0214	0.0214	0.0245	0.0259
15	45	0.266	0.0147	0.0147	0.0168	0.0177	53	413	0.263	0.0135	0.0135	0.0154	0.0163
16	46	0.266	0.0172	0.0172	0.0197	0.0208	54	414	0.263	0.0022	0.0022	0.0025	0.0027
17	47	0.266	0.0202	0.0202	0.0231	0.0244	55	415	0.262	0.0001	0.0001	0.0001	0.0002
18	48	0.266	0.0287	0.0287	0.0328	0.0346	56	416	0.261	-0.0009	-0.0009	-0.0011	-0.0011
19	49	0.267	0.0268	0.0268	0.0306	0.0324	57	417	0.261	-0.0013	-0.0013	-0.0014	-0.0015
20	50	0.266	0.0172	0.0172	0.0197	0.0208	58	418	0.260	-0.0007	-0.0007	-0.0008	-0.0008
21	103	0.271	0.0624	0.0624	0.0714	0.0754	59	419	0.260	-0.0013	-0.0013	-0.0015	-0.0016
22	105	0.273	0.0659	0.0659	0.0754	0.0797	60	420	0.260	-0.0021	-0.0021	-0.0024	-0.0025
23	107	0.272	0.0843	0.0843	0.0965	0.1020	61	506	0.267	0.0446	0.0446	0.0510	0.0539
24	108	0.271	0.0891	0.0891	0.1020	0.1078	62	507	0.267	0.0423	0.0423	0.0484	0.0511
25	110	0.270	0.0728	0.0728	0.0832	0.0879	63	508	0.266	0.0374	0.0374	0.0428	0.0452
26	111	0.269	0.0627	0.0627	0.0717	0.0758	64	509	0.265	0.0273	0.0273	0.0313	0.0330
27	112	0.268	0.0463	0.0463	0.0529	0.0559	65	510	0.265	0.0327	0.0327	0.0374	0.0395
28	113	0.267	0.0303	0.0303	0.0346	0.0366	66	511	0.264	0.0310	0.0310	0.0355	0.0374
29	114	0.266	0.0098	0.0098	0.0112	0.0119	67	512	0.264	0.0235	0.0235	0.0268	0.0283
30	115	0.264	0.0024	0.0024	0.0028	0.0029	68	513	0.263	0.0153	0.0153	0.0175	0.0185
31	203	0.269	0.0758	0.0758	0.0867	0.0916	69	514	0.263	0.0036	0.0036	0.0041	0.0043
32	205	0.270	0.0767	0.0767	0.0878	0.0927	70	515	0.262	-0.0012	-0.0012	-0.0014	-0.0015
33	207	0.269	0.0706	0.0706	0.0808	0.0853	71	516	0.262	-0.0031	-0.0031	-0.0035	-0.0037
34	208	0.269	0.0669	0.0669	0.0765	0.0808	72	517	0.261	-0.0035	-0.0035	-0.0040	-0.0043
35	210	0.268	0.0548	0.0548	0.0627	0.0662	73	518	0.261	-0.0069	-0.0069	-0.0079	-0.0084
36	211	0.267	0.0485	0.0485	0.0554	0.0585	74	519	0.261	-0.0079	-0.0079	-0.0090	-0.0095
37	212	0.266	0.0375	0.0375	0.0429	0.0453	75	520	0.260	-0.0124	-0.0124	-0.0141	-0.0149
38	213	0.299	0.0000	0.0000	0.0000	0.0001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.4544E 06	1.0524E 06	0.305	10.18	1082.2	0.11395E 07	0.3048	1.000	RUN NO.	31
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0524E 06	1.0524E 06	1.000	149.65	1948.0	490.01	1.000C	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	300.0	540.1	0.530	0.467	11.625	10.243	1.6906E-04	1.7849E-C4	-0.112
2	17	338.7	609.7	0.000	0.000	11.054	9.740	4.6308E-16	4.9044E-16	*******
3	18	303.2	545.7	0.534	0.524	11.578	10.202	1.9026E-04	2.0092E-04	-0.079
4	19	303.4	546.2	0.629	0.555	11.575	10.199	2.0162E-04	2.1293E-C4	-0.043
5	20	303.7	546.6	0.659	0.580	11.571	10.195	2.1105E-04	2.2288E-C4	0.005
6	21	303.9	547.1	0.704	0.620	11.567	10.192	2.2552E-04	2.3817E-04	0.033
7	22	304.1	547.3	0.742	0.653	11.565	10.190	2.3775E-04	2.5109E-04	C.060
8	23	304.0	547.2	0.770	0.679	11.566	10.191	2.4694E-04	2.6080E-C4	C.057
9	24	304.3	547.7	0.815	0.718	11.562	10.188	2.6133E-C4	2.7569E-C4	0.059
10	25	303.3	545.9	0.813	0.716	11.577	10.200	2.6039E-04	2.7499E-04	0.038
11	41	297.3	535.2	0.120	0.106	11.665	10.278	3.8237E-05	4.0361E-05	C.744
12	42	298.7	537.7	0.210	0.185	11.644	10.260	6.6810E-05	7.0529E-C5	-C.164
13	43	301.4	542.6	0.167	0.147	11.604	10.225	5.3259E-C5	5.6236E-C5	0.030
14	44	302.0	543.6	0.185	0.163	11.596	10.218	5.9078E-05	6.2382E-05	C.073
15	45	301.9	543.5	0.170	0.150	11.597	10.218	5.4402E-05	5.7445E-05	-C.066
16	46	302.0	543.7	0.199	0.176	11.595	10.217	6.3771E-C5	6.7339E-05	-0.189
17	47	302.2	543.9	0.235	0.207	11.593	10.215	7.5042E-C5	7.9241E-05	-0.401
18	48	302.1	543.8	0.332	0.293	11.594	10.216	1.0630E-04	1.1225E-04	-C.196
19	49	302.5	544.5	0.311	0.274	11.588	10.211	9.9344E-05	1.0491E-04	-C.144
20	50	301.5	542.7	0.200	0.176	11.603	10.224	6.3845E-05	6.7413E-05	C.124
21	103	307.8	554.0	0.718	0.633	11.510	10.142	2.3145E-04	2.4450E-04	0.023
22	105	309.2	556.6	0.757	0.667	11.489	10.123	2.4435E-04	2.5817E-04	C.058
23	107	308.7	555.7	0.970	0.854	11.496	10.130	3.1287E-04	3.3055E-04	C.085
24	108	307.6	553.7	1.026	0.904	11.513	10.144	3.3059E-04	3.4924E-04	-0.208
25	110	306.1	551.0	0.839	0.739	11.535	10.164	2.6981E-04	2.8500E-04	-0.552
26	111	305.5	549.9	-0.724	0.638	11.544	10.172	2.3254E-04	2.4562E-04	-0.466
27	112	304.2	547.6	0.535	0.472	11.563	10.189	1.7163E-04	1.8126E-04	-C.134
28	113	303.1	545.6	0.351	0.309	11.580	10.203	1.1234E-04	1.1863E-04	0.085
29	114	301.4	542.5	0.114	0.101	11.605	10.226	3.6443E-05	3.8479E-05	0.044
30	115	299.8	539.6	0.028	0.025	11.628	10.246	8.9581E-06	9.4576E-06	-0.557
31	203	304.9	548.8	0.876	0.772	11.553	10.179	2.8113E-04	2.9692E-04	C.041
32	205	305.8	550.4	0.885	0.780	11.540	10.168	2.8458E-04	3.0059E-04	0.065
33	207	305.6	550.1	0.815	0.718	11.543	10.171	2.6179E-04	2.7651E-04	C.C04
34	208	304.8	548.7	0.773	0.681	11.554	10.180	2.4810E-04	2.6204E-04	-0.189
35	210	303.5	546.3	0.634	0.559	11.573	10.198	2.0320E-04	2.1459E-04	-0.453
36	211	303.0	545.3	0.561	0.494	11.582	10.205	1.7964E-C4	1.8970E-04	-0.372
37	212	301.9	543.4	0.435	0.383	11.597	10.219	1.3912E-04	1.4690E-04	-0.138
38	213	338.7	609.7	0.000	0.000	11.054	9.740	1.6017E-07	1.6963E-07	1.536
39	214	338.7	609.7	-0.000	-0.000	11.054	9.740	-8.0425E-08	-8.5177E-08	0.759
40	215	298.6	537.4	0.046	0.041	11.646	10.262	1.4705E-C5	1.5524E-05	-1.694
41	216	296.0	532.8	0.019	0.017	11.685	10.296	5.9676E-06	6.2985E-06	-2.328
42	217	295.7	532.3	0.008	0.007	11.689	10.300	2.6656E-06	2.8134E-06	-3.685
43	218	295.3	531.6	0.001	0.000	11.695	10.305	1.7934E-07	1.8928E-07	-33.825
44	219	295.0	531.0	0.004	0.003	11.699	10.309	1.1785E-06	1.2438E-C6	1.664
45	220	294.6	530.3	0.013	0.012	11.705	10.314	4.1755E-06	4.4066E-06	3.C02
46	406	303.4	546.2	0.623	0.549	11.575	10.199	1.9960E-04	2.1079E-04	-0.015
47	407	303.1	545.7	0.671	0.591	11.579	10.202	2.1483E-04	2.2686E-04	0.006
48	408	302.5	544.4	0.663	0.584	11.589	10.211	2.1198E-04	2.2384E-04	-0.136
49	409	301.9	543.4	0.600	0.529	11.597	10.219	1.9195E-04	2.0268E-04	-0.283
50	410	301.3	542.4	0.517	0.455	11.605	10.226	1.6500E-04	1.7422E-04	-0.272
51	411	300.8	541.5	0.419	0.369	11.613	10.233	1.3365E-04	1.4111E-04	-0.246
52	412	299.7	539.5	0.249	0.220	11.629	10.247	7.9417E-05	8.3845E-C5	0.044
53	413	298.5	537.2	0.157	0.138	11.648	10.264	4.9938E-05	5.2717E-05	0.377
54	414	297.9	536.2	0.026	0.023	11.657	10.271	8.2101E-06	8.6666E-06	0.294
55	415	297.2	534.9	0.002	0.001	11.667	10.281	4.8273E-07	5.0955E-07	2.213
56	416	296.5	533.6	-0.011	-0.010	11.678	10.290	-3.5043E-06	-3.6988E-C6	0.016
57	417	295.8	532.4	-0.015	-0.013	11.688	10.298	-4.6965E-06	-4.9569E-06	0.280
58	418	295.5	531.9	-0.008	-0.007	11.692	10.303	-2.5120E-06	-2.6512E-06	-0.676
59	419	295.2	531.3	-0.015	-0.013	11.697	10.306	-4.8211E-06	-5.0882E-06	-0.328
60	420	295.1	531.2	-0.024	-0.021	11.698	10.308	-7.7134E-06	-8.1406E-C6	0.105
61	506	302.8	545.1	0.517	0.455	11.584	10.207	1.6544E-04	1.7470E-04	-0.160
62	507	302.4	544.3	0.491	0.432	11.590	10.213	1.5693E-04	1.6572E-04	-0.185
63	508	301.6	542.9	0.434	0.382	11.602	10.223	1.3867E-04	1.4642E-04	-0.383
64	509	300.8	541.4	0.318	0.280	11.614	10.233	1.0135E-04	1.0700E-04	-0.844
65	510	300.2	540.4	0.380	0.335	11.622	10.241	1.2129E-04	1.2806E-04	-0.439
66	511	299.8	539.7	0.361	0.318	11.628	10.246	1.1497E-04	1.2138E-04	-C.356
67	512	299.3	538.7	0.273	0.241	11.636	10.253	8.7052E-05	9.1903E-C5	C.007
68	513	298.8	537.8	0.178	0.157	11.643	10.259	5.6755E-C5	5.9915E-C5	0.200
69	514	297.9	536.2	0.042	0.037	11.657	10.271	1.3218E-05	1.3953E-05	0.289
70	515	296.9	534.3	-0.014	-0.013	11.672	10.285	-4.5466E-06	-4.7991E-06	2.042
71	516	296.9	534.4	-0.036	-0.032	11.672	10.284	-1.1481E-05	-1.2118E-C5	1.214
72	517	296.5	533.8	-0.041	-0.036	11.677	10.289	-1.3104E-C5	-1.3831E-C5	1.053
73	518	296.1	532.9	-0.081	-0.071	11.683	10.295	-2.5690E-05	-2.7115E-05	0.788
74	519	295.8	532.4	-0.092	-0.081	11.688	10.298	-2.9113E-05	-3.0727E-05	C.823
75	520	295.2	531.4	-0.145	-0.127	11.696	10.306	-4.5814E-05	-4.8351E-05	0.578

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7238E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.065	7.961	7.733
PT2/PT1	5.389E-02	5.320E-02	5.168E-02
TEMP(DEG R)	2053.9	2044.1	2044.1
TT2/TT1	1.0543	1.0493	1.0493

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 32 FRAME 26 TC 51 CONSTANT SET 691

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1 5.10	0.5182E 06	75.44	1976.16	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.078	1975.767	0.089	0.138	672.319	-0.293	17.6092
0.070	75.261	1976.291	0.086	0.138	671.342	-0.280	17.6132
0.140	75.444	1976.948	0.086	0.172	672.319	-0.280	17.6132
0.210	75.444	1976.292	0.086	0.406	676.220	-0.267	17.6052
0.280	75.444	1975.898	0.107	1.023	728.686	-0.280	17.6092
0.350	75.078	1975.767	0.378	1.865	1092.882	-0.293	17.5931
0.420	75.261	1976.292	1.236	2.473	1519.938	-0.293	17.6132
0.490	75.444	1976.817	2.320	3.059	1724.494	-0.280	17.6173
0.560	75.444	1976.423	2.988	3.505	1796.600	-0.267	17.6052
0.630	75.261	1975.764	3.253	3.740	1832.630	-0.267	17.6132
0.700	75.261	1975.895	3.540	3.779	1850.888	-0.280	17.6092
0.770	75.078	1976.685	3.730	3.595	1881.844	-0.306	24.2066
0.840	75.261	1976.816	3.842	3.332	1907.271	-0.293	34.8956
0.910	75.444	1976.157	3.876	3.176	1942.517	-0.293	34.9238
0.980	75.261	1975.764	3.855	3.143	1947.816	-0.293	34.9319
1.050	75.078	1975.764	3.876	3.173	1949.139	-0.306	34.9359
1.120	75.444	1976.288	3.866	3.226	1954.430	-0.293	34.9400
1.190	75.078	1977.077	3.858	3.279	1962.355	-0.306	34.9400
1.260	75.444	1976.026	3.850	3.296	1970.927	-0.280	34.9319
1.330	75.078	1976.026	3.844	3.324	1975.536	-0.293	34.9319
1.400	75.261	1976.026	3.834	3.324	1971.585	-0.306	34.9319
1.470	75.261	1976.288	3.831	3.346	1982.112	-0.306	34.9319
1.540	75.627	1976.681	3.842	3.352	1980.140	-0.306	34.9319
1.610	75.444	1976.419	3.839	3.366	1993.928	-0.280	34.9279
1.680	75.444	1976.026	3.844	3.380	2007.676	-0.280	34.9319
1.750	75.261	1975.764	3.850	3.399	2007.022	-0.293	34.9319

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	162
5.10	1.7001E 06	5.1818E 05	C.305	5.13	1097.9	0.11575E 07	0.304E	1.000	RUN NO.	32
MACH	RE/FT	REL	LENGTH(FT)	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.1818E 05	5.1818E 05	1.000	75.44	1976.2	497.75	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.262	0.0549	0.0549	0.0628	0.0663	39	214	0.294	0.0000	0.0000	0.0000	0.0000
2	17	0.294	0.0000	0.0000	0.0000	0.0000	40	215	0.262	0.0016	0.0016	0.0019	0.0020
3	18	0.264	0.0651	0.0651	0.0744	0.0786	41	216	0.260	0.0001	0.0001	0.0001	0.0001
4	19	0.264	0.0683	0.0683	0.0780	0.0824	42	217	0.260	-0.0002	-0.0002	-0.0002	-0.0002
5	20	0.264	0.0697	0.0697	0.0796	0.0841	43	218	0.260	0.0001	0.0001	0.0001	0.0001
6	21	0.264	0.0733	0.0733	0.0838	0.0885	44	219	0.260	0.0002	0.0002	0.0002	0.0002
7	22	0.265	0.0745	0.0745	0.0852	0.0900	45	220	0.260	-0.0016	-0.0016	-0.0019	-0.0020
8	23	0.265	0.0767	0.0767	0.0877	0.0926	46	406	0.265	0.0725	0.0725	0.0829	0.0875
9	24	0.265	0.0812	0.0812	0.0929	0.0980	47	407	0.264	0.0768	0.0768	0.0878	0.0927
10	25	0.264	0.0828	0.0828	0.0947	0.1000	48	408	0.264	0.0754	0.0754	0.0861	0.0909
11	41	0.261	0.0091	0.0091	0.0104	0.0110	49	409	0.264	0.0692	0.0692	0.0790	0.0834
12	42	0.262	0.0191	0.0191	0.0218	0.0230	50	410	0.263	0.0602	0.0602	0.0688	0.0727
13	43	0.263	0.0178	0.0178	0.0203	0.0214	51	411	0.263	0.0526	0.0526	0.0601	0.0635
14	44	0.263	0.0219	0.0219	0.0250	0.0264	52	412	0.262	0.0352	0.0352	0.0402	0.0425
15	45	0.263	0.0195	0.0195	0.0222	0.0235	53	413	0.262	0.0224	0.0224	0.0256	0.0270
16	46	0.263	0.0202	0.0202	0.0231	0.0244	54	414	0.261	0.0065	0.0065	0.0074	0.0078
17	47	0.264	0.0213	0.0213	0.0244	0.0257	55	415	0.261	0.0010	0.0010	0.0012	0.0013
18	48	0.264	0.0266	0.0266	0.0305	0.0321	56	416	0.260	0.0002	0.0002	0.0002	0.0002
19	49	0.264	0.0275	0.0275	0.0314	0.0332	57	417	0.260	-0.0001	-0.0001	-0.0001	-0.0001
20	50	0.263	0.0212	0.0212	0.0243	0.0256	58	418	0.260	-0.0001	-0.0001	-0.0001	-0.0001
21	103	0.267	0.0834	0.0834	0.0953	0.1007	59	419	0.260	0.0001	0.0001	0.0001	0.0001
22	105	0.268	0.0843	0.0843	0.0964	0.1018	60	420	0.260	-0.0008	-0.0008	-0.0010	-0.0010
23	107	0.268	0.0974	0.0974	0.1114	0.1176	61	506	0.264	0.0595	0.0595	0.0680	0.0717
24	108	0.267	0.1017	0.1017	0.1163	0.1228	62	507	0.264	0.0593	0.0593	0.0678	0.0716
25	110	0.266	0.0846	0.0846	0.0967	0.1022	63	508	0.263	0.0573	0.0573	0.0654	0.0691
26	111	0.266	0.0729	0.0729	0.0833	0.0880	64	509	0.263	0.0483	0.0483	0.0551	0.0582
27	112	0.265	0.0514	0.0514	0.0587	0.0620	65	510	0.262	0.0427	0.0427	0.0488	0.0515
28	113	0.264	0.0309	0.0309	0.0353	0.0373	66	511	0.262	0.0396	0.0396	0.0452	0.0478
29	114	0.263	0.0094	0.0094	0.0107	0.0113	67	512	0.262	0.0260	0.0260	0.0297	0.0313
30	115	0.262	0.0021	0.0021	0.0024	0.0025	68	513	0.262	0.0177	0.0177	0.0203	0.0214
31	203	0.266	0.0916	0.0916	0.1047	0.1105	69	514	0.261	0.0035	0.0035	0.0040	0.0043
32	205	0.266	0.0867	0.0867	0.0991	0.1046	70	515	0.261	-0.0001	-0.0001	-0.0001	-0.0001
33	207	0.266	0.0778	0.0778	0.0889	0.0939	71	516	0.261	-0.0003	-0.0003	-0.0003	-0.0003
34	208	0.265	0.0730	0.0730	0.0835	0.0881	72	517	0.260	-0.0028	-0.0028	-0.0032	-0.0034
35	210	0.265	0.0583	0.0583	0.0666	0.0703	73	518	0.260	-0.0018	-0.0018	-0.0020	-0.0021
36	211	0.264	0.0505	0.0505	0.0577	0.0609	74	519	0.260	-0.0003	-0.0003	-0.0003	-0.0003
37	212	0.264	0.0366	0.0366	0.0418	0.0441	75	520	0.260	-0.0008	-0.0008	-0.0009	-0.0010
38	213	0.294	-0.0000	-0.0000	-0.0000	-0.0000							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
>.10	1.7001E 06	5.1816E 05	0.305	5.13	1097.9	0.11575E 07	0.3048	1.000	RUN NO. 32
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
>.10	5.1818E 05	5.1818E 05	1.000	75.44	1976.2	497.75	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.508)	ST(0.874)	TIME(SEC)
1	16	302.2	544.0	0.462	0.407	8.408	7.408	2.8472E-04	3.0582E-04	0.124
2	17	338.7	609.7	0.000	0.000	8.025	7.071	6.8750E-16	7.2779E-16	*******
3	18	304.1	547.4	0.446	0.481	8.388	7.391	3.4339E-04	3.6252E-04	0.163
4	19	304.4	547.9	0.372	0.504	8.385	7.388	3.5998E-04	3.8005E-04	0.174
5	20	304.6	548.3	0.384	0.513	8.383	7.386	3.6734E-04	3.8788E-04	0.175
6	21	304.8	548.7	0.614	0.541	8.381	7.385	3.8669E-04	4.0826E-04	0.184
7	22	305.0	548.9	0.625	0.550	8.379	7.383	3.9315E-04	4.1509E-04	0.182
8	23	305.0	549.0	0.643	0.566	8.379	7.383	4.0454E-04	4.2711E-04	0.184
9	24	305.2	549.3	0.681	0.600	8.377	7.381	4.2846E-04	4.5237E-04	0.178
10	25	304.7	548.5	0.694	0.612	8.382	7.386	4.3686E-04	4.6123E-04	0.176
11	41	300.8	541.4	0.077	0.068	8.423	7.422	4.8104E-05	5.0772E-05	0.793
12	42	301.6	542.8	0.161	0.141	8.415	7.415	1.0060E-04	1.0618E-04	0.338
13	43	303.0	545.5	0.149	0.132	8.399	7.401	9.3702E-05	9.8916E-05	0.323
14	44	303.5	546.3	0.184	0.162	8.394	7.397	1.1550E-04	1.2193E-04	0.309
15	45	303.5	546.3	0.163	0.144	8.394	7.397	1.0262E-04	1.0834E-04	0.349
16	46	303.6	546.5	0.170	0.150	8.393	7.396	1.0661E-04	1.1255E-04	0.382
17	47	303.8	546.8	0.179	0.158	8.392	7.394	1.1253E-04	1.1880E-04	0.267
18	48	303.7	546.7	0.224	0.197	8.392	7.395	1.4052E-04	1.4835E-04	0.126
19	49	304.1	547.4	0.230	0.203	8.388	7.391	1.4490E-04	1.5297E-04	0.116
20	50	303.5	546.4	0.178	0.157	8.394	7.396	1.1202E-04	1.1825E-04	0.331
21	103	307.9	554.1	0.696	0.613	8.349	7.356	4.3584E-04	4.6449E-04	0.210
22	105	308.7	555.7	0.703	0.619	8.339	7.348	4.4455E-04	4.6949E-04	0.216
23	107	308.4	555.0	0.813	0.716	8.343	7.352	5.1289E-04	5.4270E-04	0.213
24	108	307.6	553.7	0.849	0.748	8.351	7.359	5.365CE-04	5.6655E-04	0.033
25	110	306.6	551.9	0.708	0.623	8.362	7.368	4.4635E-04	4.7131E-04	-0.141
26	111	306.2	551.1	0.610	0.537	8.366	7.372	3.8439E-04	4.0588E-04	-0.044
27	112	305.3	549.5	0.430	0.379	8.376	7.380	2.7095E-04	2.8608E-04	0.214
28	113	304.5	548.2	0.259	0.228	8.384	7.387	1.6289E-04	1.7197E-04	0.359
29	114	303.5	546.2	0.079	0.069	8.395	7.397	4.9368E-05	5.2117E-05	0.405
30	115	302.4	544.3	0.018	0.016	8.406	7.407	1.1044E-05	1.1658E-05	-0.003
31	203	306.0	550.8	0.766	0.675	8.368	7.373	4.8305E-04	5.1004E-04	0.212
32	205	306.6	551.9	0.725	0.639	8.362	7.368	4.5717E-04	4.8274E-04	0.189
33	207	306.4	551.4	0.651	0.573	8.365	7.370	4.1031E-04	4.3324E-04	0.169
34	208	305.8	550.5	0.611	0.539	8.370	7.375	3.8512E-04	4.0663E-04	0.067
35	210	304.9	548.9	0.488	0.430	8.380	7.384	3.0735E-04	3.2450E-04	-0.073
36	211	304.6	548.3	0.423	0.373	8.383	7.387	2.6618E-04	2.8102E-04	0.020
37	212	303.9	547.0	0.307	0.270	8.391	7.393	1.9275E-04	2.0349E-04	0.242
38	213	338.7	609.7	-0.000	-0.000	8.025	7.071	-2.0907E-07	-2.2132E-07	0.464
39	214	338.7	609.7	0.000	0.000	8.025	7.071	1.0482E-07	1.1096E-07	1.316
40	215	301.7	543.1	0.014	0.012	8.414	7.413	8.6920E-06	9.1747E-06	-0.161
41	216	300.1	540.1	0.001	0.001	8.431	7.429	5.4566E-07	5.8011E-07	5.845
42	217	299.9	539.8	-0.001	-0.001	8.433	7.430	-8.4709E-07	-8.9401E-07	-2.800
43	218	299.7	539.4	0.001	0.001	8.435	7.432	6.5534E-07	6.9163E-07	7.489
44	219	299.5	539.1	0.001	0.001	8.437	7.434	9.0777E-07	9.5803E-07	6.657
45	220	299.2	538.5	-0.014	-0.012	8.440	7.437	-8.6633E-06	-9.1427E-06	0.846
46	406	304.9	548.8	0.608	0.536	8.380	7.384	3.8252E-04	4.0386E-04	0.175
47	407	304.5	548.2	0.644	0.567	8.384	7.387	4.0505E-04	4.2764E-04	0.170
48	408	304.1	547.4	0.632	0.557	8.388	7.391	3.9743E-04	4.1958E-04	0.055
49	409	303.7	546.6	0.580	0.511	8.393	7.395	3.6466E-04	3.8497E-04	-0.055
50	410	303.3	546.0	0.506	0.446	8.396	7.398	3.1770E-04	3.3538E-04	-0.037
51	411	303.0	545.5	0.442	0.389	8.399	7.401	2.7749E-04	2.9293E-04	0.051
52	412	302.3	544.2	0.296	0.261	8.407	7.408	1.8575E-04	1.9608E-04	0.353
53	413	301.4	542.5	0.189	0.166	8.417	7.416	1.1808E-04	1.2463E-04	0.551
54	414	301.2	542.1	0.055	0.048	8.419	7.419	3.4209E-05	3.6107E-05	0.788
55	415	300.7	541.2	0.009	0.008	8.425	7.423	5.4518E-06	5.7964E-06	0.824
56	416	300.2	540.4	0.002	0.001	8.429	7.427	9.9819E-07	1.0535E-06	3.688
57	417	299.9	539.7	-0.001	-0.001	8.433	7.431	-3.9558E-07	-4.2171E-07	-5.196
58	418	299.6	539.3	-0.001	-0.001	8.435	7.433	-6.4856E-07	-6.8447E-07	-3.665
59	419	299.4	539.0	0.001	0.001	8.437	7.434	5.9942E-07	6.3260E-07	6.750
60	420	299.4	539.0	-0.007	-0.006	8.438	7.435	-4.4390E-06	-4.6847E-06	0.547
61	506	304.2	547.5	0.499	0.439	8.388	7.391	3.1356E-04	3.3103E-04	0.083
62	507	303.9	547.1	0.498	0.439	8.390	7.393	3.1295E-04	3.3038E-04	0.111
63	508	303.4	546.2	0.481	0.424	8.395	7.397	3.0198E-04	3.1879E-04	0.051
64	509	302.9	545.2	0.405	0.357	8.401	7.402	2.5450E-04	2.6866E-04	-0.080
65	510	302.4	544.4	0.359	0.317	8.406	7.407	2.2533E-04	2.3785E-04	-0.065
66	511	302.4	544.3	0.333	0.293	8.406	7.407	2.0881E-04	2.2042E-04	0.001
67	512	302.0	543.7	0.218	0.193	8.410	7.410	1.3698E-04	1.4459E-04	0.185
68	513	301.7	543.1	0.149	0.131	8.413	7.413	9.3509E-05	9.8702E-05	0.428
69	514	301.1	542.0	0.030	0.026	8.420	7.419	1.8626E-05	1.9660E-05	0.502
70	515	300.4	540.7	-0.001	-0.001	8.427	7.426	-6.4954E-07	-6.8554E-07	6.975
71	516	300.4	540.6	-0.002	-0.002	8.428	7.426	-1.3481E-06	-1.4228E-06	6.465
72	517	300.1	540.2	-0.024	-0.021	8.430	7.428	-1.4822E-05	-1.5643E-05	1.493
73	518	300.0	540.0	-0.015	-0.013	8.432	7.429	-9.2818E-06	-9.7960E-06	1.110
74	519	299.8	539.6	-0.002	-0.002	8.434	7.431	-1.3474E-06	-1.4220E-06	-0.123
75	520	299.4	538.9	-0.007	-0.006	8.438	7.435	-4.2898E-06	-4.5273E-06	1.593

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3987E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.969	3.850	3.359
PT2/PT1	4.730E-02	5.103E-02	4.506E-02
TEMP(DEG R)	1946.5	2007.0	2046.7
TT2/TT1	0.9850	1.0156	1.0357

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT CATA TEST NO. 182 RUN NO. 33 FRAME 26 TO 51 CONSTANT SET 691

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8 1	5.10	0.9359E 06	149.54	2088.15	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.544	2087.763	0.142	0.113	727.750	-0.293	17.4478
0.070	149.544	2088.021	0.142	0.113	727.750	-0.319	17.6092
0.140	149.544	2088.661	0.139	0.147	728.686	-0.306	17.6132
0.210	149.544	2089.176	0.142	0.375	731.488	-0.293	17.6132
0.280	149.544	2088.021	0.155	1.271	752.781	-0.293	17.6011
0.350	149.544	2087.763	0.367	2.916	1053.206	-0.293	17.6011
0.420	149.544	2087.507	1.607	4.277	1610.732	-0.319	17.6011
0.490	149.544	2087.763	3.874	5.731	1891.227	-0.319	17.6092
0.560	149.544	2087.763	5.742	7.000	1982.112	-0.306	17.6092
0.630	150.093	2087.763	6.781	7.672	2000.479	-0.293	17.6052
0.700	149.544	2087.378	7.456	7.817	2007.676	-0.306	17.6092
0.770	149.544	2087.379	7.869	7.658	2070.031	-0.332	27.8382
0.840	150.093	2088.021	8.018	7.407	2066.803	-0.306	23.4036
0.910	149.544	2088.150	7.991	7.284	2059.047	-0.306	34.9238
0.980	149.544	2087.506	7.928	7.323	2086.140	-0.293	34.9238
1.050	149.544	2087.122	7.893	7.435	2105.401	-0.306	34.9279
1.120	149.544	2087.122	7.883	7.546	2124.589	-0.319	34.9238
1.190	149.544	2087.763	7.888	7.619	2115.004	-0.306	34.9319
1.260	149.544	2088.150	7.888	7.658	2111.805	-0.319	34.9319
1.330	149.544	2087.506	7.893	7.686	2122.673	-0.306	34.9238
1.400	150.093	2087.122	7.851	7.714	2124.589	-0.306	34.9279
1.470	149.544	2087.122	7.893	7.758	2130.968	-0.306	34.9279
1.540	149.544	2087.507	7.858	7.789	2139.250	-0.306	34.9319
1.610	149.544	2088.278	7.858	7.806	2141.796	-0.319	34.9319
1.680	150.093	2087.378	7.856	7.822	2130.968	-0.293	34.9238
1.750	150.093	2087.122	7.851	7.836	2129.693	-0.319	34.9279

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.0704E 06	9.3586E 05	0.305	10.17	1160.1	0.12297E 07	0.3048	1.CCC	RUN NO.	53
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.3586E 05	9.3586E 05	1.CCO	149.54	2088.1	528.78	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.0CO)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.249	0.0468	0.0468	0.0533	0.0562	39	214	0.277	0.0000	0.0000	0.0000	C.CCCO
2	17	0.277	0.0000	C.CCCO	0.0000	0.C000	40	215	0.248	0.0003	0.0003	0.0003	0.0003
3	18	0.252	0.0532	0.0532	0.0606	0.0640	41	216	0.246	-0.0013	-0.0013	-0.0015	-0.0015
4	19	0.252	0.0557	0.0557	0.0635	0.0670	42	217	0.246	-0.0007	-0.0007	-0.0008	-0.CCC8
5	20	0.252	0.0588	0.0588	0.0670	0.0707	43	218	0.245	-0.0008	-0.0008	-0.0009	-0.0010
6	21	0.253	0.0626	C.0626	0.0714	0.0753	44	219	0.245	-0.0005	-0.0005	-0.0005	-0.0006
7	22	0.253	0.0643	0.0643	0.0733	0.0773	45	220	0.245	-0.0011	-0.0011	-0.0012	-0.0013
8	23	0.253	0.0653	0.0653	0.0745	0.0786	46	406	0.252	0.0578	0.0578	0.0659	0.0695
9	24	0.253	0.0691	0.0691	0.0788	0.0831	47	407	0.252	0.0613	0.0613	0.0699	0.0737
10	25	0.252	0.0727	C.0727	0.0829	0.0874	48	408	0.251	0.0588	0.0588	0.0670	0.0707
11	41	0.247	0.0097	0.0097	0.0111	0.0117	49	409	0.251	0.0527	0.0527	0.0600	0.0633
12	42	0.248	0.0137	0.0137	0.0156	0.0165	50	410	0.250	0.0450	0.0450	0.0513	0.0541
13	43	0.250	0.0121	0.0121	0.0138	0.0146	51	411	0.250	0.0389	0.0389	0.0443	0.0467
14	44	0.251	0.0163	0.0163	0.0185	0.0195	52	412	0.249	0.0241	0.0241	0.0275	0.0290
15	45	0.251	0.0146	0.0146	0.0167	0.0176	53	413	0.248	0.0138	0.0138	0.0158	0.0166
16	46	0.251	0.0141	0.0141	0.0161	0.0170	54	414	0.248	0.0035	0.0035	0.0040	0.0042
17	47	0.251	0.0158	0.0158	0.0180	0.0190	55	415	0.247	0.0002	0.0002	0.0002	0.0002
18	48	0.251	0.0144	0.0144	0.0164	0.0173	56	416	0.246	-0.0004	-0.0005	-0.0005	-0.0005
19	49	0.252	0.0205	0.0205	0.0234	0.0247	57	417	0.246	-0.0006	-0.0006	-0.0006	-0.0007
20	50	0.251	0.0181	0.0181	0.0206	0.0217	58	418	0.245	-0.0003	-0.0003	-0.0004	-0.0004
21	103	0.256	0.0659	0.0659	0.0752	0.0794	59	419	0.245	-0.0003	-0.0003	-0.0003	-0.0004
22	105	0.257	0.0687	0.0687	0.0784	0.0828	60	420	0.245	-0.0010	-0.CC10	-0.0012	-0.0012
23	107	0.257	0.0808	0.0808	0.0922	0.0973	61	506	0.252	0.0505	0.0576	0.0576	0.0608
24	108	0.256	0.0811	0.0811	0.0925	0.0976	62	507	0.251	0.0494	0.0494	0.0563	0.0594
25	110	0.255	0.0649	C.0649	0.0740	0.0780	63	508	0.251	0.0467	0.0467	0.0532	0.0561
26	111	0.254	0.0547	C.0547	0.0624	0.0658	64	509	0.250	0.0385	0.0385	0.0439	0.0463
27	112	0.253	0.0374	0.0374	0.0426	0.0449	65	510	0.249	0.0334	0.0334	0.0381	0.0401
28	113	0.252	0.0223	0.0223	0.0255	0.0269	66	511	0.249	0.0314	0.0314	0.0358	0.0377
29	114	0.251	0.0061	0.0061	0.0070	0.0074	67	512	0.249	0.0212	0.0212	0.0242	0.0255
30	115	0.250	0.0012	0.0012	0.0014	0.0015	68	513	0.248	0.0132	0.0132	0.0151	0.0159
31	203	0.254	0.0705	0.0705	0.0804	0.0848	69	514	0.247	0.0030	0.CC30	0.0034	0.0036
32	205	0.254	0.0638	0.0638	0.0728	0.0768	70	515	0.247	0.0000	0.0000	0.0000	0.0000
33	207	0.254	0.0606	C.0606	0.0691	0.0729	71	516	0.247	0.0003	0.0003	0.0003	0.0003
34	208	0.253	0.0602	0.0602	0.0686	0.0724	72	517	0.246	-0.0020	-0.CC20	-0.0022	-0.0024
35	210	0.252	0.0484	0.0484	0.0552	0.0582	73	518	0.246	-0.0013	-0.CC13	-0.0015	-0.0016
36	211	0.252	0.0409	0.0409	0.0467	0.0492	74	519	0.246	-0.0009	-0.CC09	-0.CC10	-0.CC11
37	212	0.251	0.0284	C.0284	C.0323	0.0341	75	520	0.245	0.0003	0.0003	0.0004	C.0004
38	213	0.277	-0.0000	-0.C000	-0.CCOO	-0.CCOO							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	RUN	LENGTH(M-TER)	PT(ATM)	TT(DEG K)	HT(JOULES/KG)	RS(METER)	HAW/HT	TEST NO. 182
9.10	9.0704E 06	9.3586E 05	0.105	10.17	1160.1	0.12297E 07	0.3048	1.000	RUN NO. 33
MACH	RE/FT	RUN	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
9.10	9.3586E 05	9.3586E 05	1.000	149.54	2088.1	528.78	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	305.4	549.7	0.598	0.527	12.784	11.264	1.8197E-04	1.9188E-04	C.039
2	17	338.7	609.7	C.000	0.000	12.290	10.829	1.4313E-16	1.5127E-16	*******
3	18	308.3	554.9	0.678	0.597	12.741	11.227	2.0703E-04	2.1834E-04	0.090
4	19	308.7	555.7	0.710	0.625	12.734	11.221	2.1690E-04	2.2876E-04	0.106
5	20	308.9	556.1	0.748	0.659	12.731	11.218	2.2874E-04	2.4125E-04	0.131
6	21	309.3	556.8	0.797	0.702	12.726	11.213	2.4378E-04	2.5712E-04	0.148
7	22	309.5	557.1	0.817	0.720	12.723	11.211	2.5010E-04	2.6379E-04	0.155
8	23	309.3	556.8	0.831	0.732	12.726	11.213	2.5423E-04	2.6814E-04	0.158
9	24	309.8	557.7	0.879	0.774	12.718	11.207	2.6900E-04	2.8373E-04	0.167
10	25	308.7	555.7	0.926	0.816	12.735	11.221	2.8294E-04	2.9841E-04	0.167
11	41	302.6	544.7	0.125	0.110	12.826	11.301	3.7871E-05	3.9925E-05	0.654
12	42	304.1	547.3	0.176	0.155	12.804	11.282	5.3360E-05	5.6260E-05	0.297
13	43	306.3	551.4	0.155	0.136	12.770	11.253	4.7127E-05	4.9695E-05	0.354
14	44	307.1	552.8	0.207	0.183	12.759	11.242	6.3273E-05	6.6726E-05	0.318
15	45	306.9	552.5	0.187	0.164	12.761	11.245	5.6925E-05	6.0030E-05	0.377
16	46	307.1	552.8	0.180	0.159	12.759	11.242	5.5035E-05	5.8038E-05	0.377
17	47	307.4	553.4	0.201	0.177	12.754	11.238	6.1420E-05	6.4772E-05	0.426
18	48	307.2	553.0	0.184	0.162	12.757	11.240	5.6140E-05	5.9204E-05	0.435
19	49	307.9	554.3	0.262	0.231	12.747	11.231	7.9926E-05	8.4291E-05	0.238
20	50	306.7	552.1	0.231	0.203	12.765	11.247	7.0295E-05	7.4128E-05	0.191
21	103	313.8	564.8	0.835	0.736	12.660	11.155	2.5676E-04	2.7089E-04	0.151
22	105	315.0	567.1	0.869	0.765	12.641	11.138	2.6760E-04	2.8235E-04	0.171
23	107	314.5	566.1	1.022	0.900	12.649	11.145	3.1463E-04	3.3197E-04	0.183
24	108	313.3	564.0	1.027	0.905	12.666	11.161	3.1572E-04	3.3309E-04	0.012
25	110	311.8	561.2	0.823	0.725	12.689	11.181	2.5249E-04	2.6635E-04	-0.098
26	111	311.2	560.1	0.694	0.612	12.698	11.189	2.1283E-04	2.2451E-04	0.021
27	112	309.9	557.9	0.475	0.419	12.717	11.205	1.4540E-04	1.5336E-04	0.297
28	113	308.8	555.9	0.284	0.251	12.733	11.220	8.6559E-05	9.1714E-05	0.461
29	114	307.2	552.9	0.078	C.069	12.758	11.242	2.3932E-05	2.5237E-05	C.530
30	115	305.5	550.0	0.016	0.014	12.782	11.263	4.8398E-06	5.1033E-06	0.277
31	203	310.5	558.8	0.896	0.790	12.709	11.198	2.7453E-04	2.8957E-04	0.151
32	205	311.3	560.4	0.811	0.714	12.696	11.187	2.4857E-04	2.6220E-04	0.156
33	207	311.0	559.8	0.769	0.678	12.701	11.191	2.3581E-04	2.4875E-04	0.144
34	208	310.2	558.4	0.765	0.674	12.712	11.201	2.3425E-04	2.4709E-04	0.040
35	210	308.9	556.1	0.616	0.543	12.732	11.218	1.8829E-04	1.9859E-04	-0.064
36	211	308.3	555.0	0.521	0.459	12.741	11.226	1.5931E-04	1.6802E-04	0.067
37	212	307.3	553.1	0.362	0.319	12.756	11.240	1.1042E-04	1.1644E-04	C.340
38	213	338.7	609.7	-0.000	-0.000	12.290	10.829	-3.4688E-14	-3.6662E-14	*******
39	214	338.7	609.7	0.000	0.000	12.290	10.829	5.4375E-11	5.7470E-11	*******
40	215	304.2	547.5	0.003	0.003	12.803	11.281	9.9085E-07	1.0447E-06	1.519
41	216	301.3	542.4	-0.017	-0.015	12.845	11.318	-5.2209E-06	-5.2939E-06	-0.364
42	217	301.0	541.8	-0.009	-0.008	12.850	11.323	-2.680[illegible]-06	-2.8252E-06	-1.199
43	218	300.5	541.0	-0.011	-0.009	12.856	11.328	-3.216dE-06	-3.3908E-06	-0.447
44	219	300.1	540.2	-0.006	-0.005	12.863	11.334	-1.8273E-06	-1.9261E-06	-1.958
45	220	299.7	539.4	-0.014	-0.012	12.869	11.340	-4.1904E-06	-4.4169E-06	C.467
46	406	308.6	555.5	0.736	0.648	12.736	11.222	2.2484E-04	2.3713E-04	C.111
47	407	308.4	555.0	0.781	0.688	12.740	11.226	2.3868E-04	2.5173E-04	0.106
48	408	307.5	553.6	0.750	0.661	12.752	11.237	2.2884E-04	2.4133E-04	-0.035
49	409	307.0	552.5	0.672	0.592	12.761	11.244	2.0497E-04	2.1615E-04	-0.141
50	410	306.4	551.6	0.575	0.507	12.769	11.251	1.7529E-04	1.8485E-04	-C.084
51	411	305.9	550.7	0.497	0.438	12.776	11.257	1.5132E-04	1.5956E-04	0.060
52	412	304.8	548.6	0.309	0.272	12.793	11.272	9.3897E-05	9.9005E-05	0.374
53	413	305.6	546.5	0.177	0.156	12.810	11.288	5.3808E-05	5.6731E-05	0.668
54	414	303.2	545.7	0.045	0.039	12.818	11.294	1.3559E-05	1.4295E-05	1.127
55	415	302.4	544.3	0.002	0.002	12.829	11.304	7.4897E-07	7.8958E-07	7.750
56	416	301.5	542.6	-0.005	-0.004	12.843	11.316	-1.5455E-06	-1.6292E-06	-3.128
57	417	300.7	541.3	-0.007	-0.006	12.854	11.326	-2.1483E-06	-2.2646E-06	-1.194
58	418	300.4	540.7	-0.004	-0.004	12.859	11.330	-1.2066E-06	-1.2719E-06	-1.880
59	419	300.2	540.3	-0.004	-0.003	12.862	11.333	-1.1826E-06	-1.2466E-06	-2.772
60	420	300.0	539.9	-0.013	-0.012	12.865	11.336	-4.0304E-06	-4.2482E-06	0.179
61	506	308.1	554.6	0.644	0.568	12.744	11.229	1.9674E-04	2.0749E-04	C.064
62	507	307.6	553.6	0.630	0.555	12.752	11.236	1.9234E-04	2.0284E-04	C.033
63	508	306.8	552.2	0.590	0.525	12.764	11.247	1.8167E-04	1.9158E-04	-0.075
64	509	305.7	550.3	0.492	0.433	12.779	11.260	1.4977E-04	1.5793E-04	-C.229
65	510	305.4	549.7	0.427	0.376	12.784	11.265	1.2993E-04	1.3700E-04	-0.178
66	511	305.0	549.0	0.401	0.354	12.790	11.270	1.2208E-04	1.2873E-04	-C.065
67	512	304.5	548.1	0.272	0.240	12.798	11.276	8.2650E-05	8.7144E-05	0.255
68	513	304.0	547.1	0.169	0.149	12.806	11.283	5.1499E-05	5.4298E-05	C.492
69	514	303.0	545.4	0.038	0.034	12.820	11.296	1.1625E-05	1.2256E-05	0.894
70	515	302.0	543.6	0.000	C.CCC	12.834	11.309	7.7084E-11	8.1262E-11	*******
71	516	302.0	543.7	C.003	0.003	12.834	11.309	1.0391E-06	1.0954E-06	4.165
72	517	301.6	542.8	-0.025	-0.022	12.841	11.315	-7.6790E-06	-8.0949E-06	C.619
73	518	301.1	541.9	-0.017	-0.015	12.848	11.321	-5.1913E-06	-5.4724E-06	C.703
74	519	300.8	541.4	-0.011	-0.010	12.853	11.325	-3.4278E-06	-3.6132E-06	0.056
75	520	300.1	540.3	C.004	0.004	12.862	11.333	1.3028E-06	1.3733E-06	5.272

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.5837E-11 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.147	7.891	7.836
PT2/PT1	5.448E-02	5.276E-02	5.240E-02
TEMP(DEG R)	2118.2	2129.7	2200.6
TT2/TT1	1.0144	1.0199	1.0539

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 34 FRAME 25 TO 52 CONSTANT SET 691

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5052E 06	74.76	1995.34	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	74.577	1995.346	0.106	0.151	671.342	-0.280	17.6052
0.070	74.760	1995.215	0.100	0.151	670.364	-0.293	17.6092
0.140	74.577	1995.084	0.100	0.173	671.342	-0.293	17.6092
0.210	74.577	1995.476	0.100	0.399	676.220	-0.293	17.6132
0.280	74.577	1996.261	0.127	0.999	727.750	-0.280	17.6132
0.350	74.760	1995.607	0.389	1.873	1106.769	-0.280	17.5971
0.420	74.760	1995.084	1.247	2.520	1540.617	-0.280	17.6052
0.490	74.577	1995.084	2.344	3.134	1759.636	-0.293	17.6092
0.560	74.577	1995.476	3.054	3.580	1851.563	-0.280	17.6092
0.630	74.577	1995.868	3.382	3.804	1882.514	-0.293	17.6173
0.700	74.760	1995.870	3.642	3.818	1901.261	-0.293	17.6092
0.770	74.760	1995.082	3.827	3.625	1919.270	-0.306	21.7896
0.840	74.577	1995.214	3.920	3.385	1932.568	-0.293	34.9198
0.910	74.760	1995.344	3.928	3.257	1939.203	-0.306	34.9319
0.980	74.577	1996.392	3.859	3.232	1941.192	-0.293	34.9359
1.050	74.943	1995.868	3.877	3.274	1953.769	-0.293	34.9279
1.120	74.577	1995.212	3.870	3.313	1962.355	-0.293	34.9279
1.190	74.577	1995.212	3.870	3.329	1972.244	-0.306	34.9279
1.260	74.394	1996.000	3.877	3.357	1982.112	-0.293	34.9319
1.330	74.577	1996.262	3.885	3.377	1998.515	-0.306	34.9319
1.400	74.760	1996.000	3.901	3.385	2001.788	-0.280	34.9279
1.470	74.577	1995.343	3.853	3.407	1997.860	-0.293	34.9279
1.540	74.577	1995.607	3.880	3.421	2003.097	-0.306	34.9279
1.610	74.394	1995.473	3.880	3.441	2007.676	-0.293	34.9359
1.680	74.577	1996.653	3.883	3.455	2012.903	-0.293	34.9359
1.750	74.760	1996.521	3.885	3.458	2024.643	-0.293	34.9319
1.820	74.577	1995.342	3.885	3.455	2020.733	-0.293	34.9279
1.890	74.577	1995.343	3.877	3.460	2021.385	-0.293	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAM/HT	TEST NO. 182
5.10	1.6575E 06	5.0521E 05	0.305	5.09	1108.5	0.11598E 07	0.3048	1.000	RUN NO. 34
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	PAM/HT	
5.10	5.0521E 05	5.0521E 05	1.000	74.76	1995.3	503.05	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.265	0.0577	0.0577	0.0660	0.0696	39	214	0.291	-0.0001	-0.0001	-0.0001	-0.0001
2	17	0.291	0.0000	0.0000	0.0000	0.0001	40	215	0.264	0.0008	0.0008	0.0009	0.0010
3	18	0.266	0.0665	0.0665	0.0761	0.0803	41	216	0.263	-0.0003	-0.0003	-0.0004	-0.0004
4	19	0.266	0.0687	0.0687	0.0786	0.0830	42	217	0.263	0.0000	0.0000	0.0001	0.0001
5	20	0.266	0.0708	0.0708	0.0810	0.0855	43	218	0.263	0.0004	0.0004	0.0004	0.0004
6	21	0.267	0.0742	0.0742	0.0848	0.0896	44	219	0.263	-0.0006	-0.0006	-0.0007	-0.0007
7	22	0.267	0.0758	0.0758	0.0866	0.0915	45	220	0.262	0.0002	0.0002	0.0002	0.0002
8	23	0.267	0.0763	0.0763	0.0872	0.0921	46	406	0.267	0.0724	0.0724	0.0828	0.0874
9	24	0.267	0.0790	0.0790	0.0903	0.0954	47	407	0.267	0.0752	0.0752	0.0859	0.0907
10	25	0.267	0.0829	0.0829	0.0947	0.1001	48	408	0.266	0.0699	0.0699	0.0799	0.0844
11	41	0.263	0.0110	0.0110	0.0126	0.0133	49	409	0.266	0.0619	0.0619	0.0707	0.0747
12	42	0.264	0.0157	0.0157	0.0179	0.0189	50	410	0.266	0.0519	0.0519	0.0593	0.0626
13	43	0.265	0.0159	0.0159	0.0182	0.0192	51	411	0.266	0.0444	0.0444	0.0508	0.0536
14	44	0.265	0.0189	0.0189	0.0216	0.0228	52	412	0.265	0.0268	0.0268	0.0306	0.0323
15	45	0.265	0.0186	0.0186	0.0213	0.0225	53	413	0.264	0.0129	0.0129	0.0148	0.0156
16	46	0.266	0.0165	0.0165	0.0189	0.0199	54	414	0.264	0.0026	0.0026	0.0030	0.0032
17	47	0.266	0.0206	0.0206	0.0236	0.0249	55	415	0.264	0.0005	0.0005	0.0005	0.0006
18	48	0.266	0.0188	0.0188	0.0215	0.0227	56	416	0.263	0.0005	0.0005	0.0006	0.0006
19	49	0.266	0.0202	0.0202	0.0231	0.0244	57	417	0.263	0.0006	0.0006	0.0006	0.0007
20	50	0.266	0.0217	0.0217	0.0248	0.0261	58	418	0.263	-0.0000	-0.0000	-0.0000	-0.0000
21	103	0.270	0.0824	0.0824	0.0943	0.0996	59	419	0.263	-0.0001	-0.0001	-0.0002	-0.0002
22	105	0.271	0.0836	0.0836	0.0957	0.1011	60	420	0.263	-0.0003	-0.0003	-0.0004	-0.0004
23	107	0.270	0.0904	0.0904	0.1034	0.1092	61	506	0.267	0.0653	0.0653	0.0747	0.0789
24	108	0.269	0.0857	0.0857	0.0981	0.1036	62	507	0.266	0.0650	0.0650	0.0743	0.0785
25	110	0.268	0.0663	0.0663	0.0759	0.0801	63	508	0.266	0.0598	0.0598	0.0683	0.0722
26	111	0.268	0.0553	0.0553	0.0632	0.0668	64	509	0.265	0.0492	0.0492	0.0563	0.0594
27	112	0.267	0.0362	0.0362	0.0414	0.0437	65	510	0.265	0.0415	0.0415	0.0475	0.0501
28	113	0.267	0.0208	0.0208	0.0238	0.0251	66	511	0.265	0.0383	0.0383	0.0438	0.0462
29	114	0.266	0.0055	0.0055	0.0063	0.0066	67	512	0.265	0.0245	0.0245	0.0280	0.0295
30	115	0.265	0.0010	0.0010	0.0011	0.0012	68	513	0.264	0.0154	0.0154	0.0176	0.0186
31	203	0.268	0.0822	0.0822	0.0941	0.0994	69	514	0.264	0.0034	0.0034	0.0039	0.0041
32	205	0.269	0.0764	0.0764	0.0875	0.0924	70	515	0.263	0.0016	0.0016	0.0018	0.0019
33	207	0.269	0.0771	0.0771	0.0882	0.0932	71	516	0.263	-0.0010	-0.0010	-0.0011	-0.0012
34	208	0.268	0.0744	0.0744	0.0851	0.0899	72	517	0.263	0.0038	0.0038	0.0043	0.0046
35	210	0.267	0.0588	0.0588	0.0673	0.0711	73	518	0.263	-0.0021	-0.0021	-0.0024	-0.0025
36	211	0.267	0.0499	0.0499	0.0571	0.0603	74	519	0.263	-0.0002	-0.0002	-0.0002	-0.0002
37	212	0.266	0.0343	0.0343	0.0393	0.0415	75	520	0.262	0.0005	0.0005	0.0006	0.0006
38	213	0.291	0.0000	0.0000	0.0000	0.0000							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6575E 06	5.0521E 05	7.09	1108.5	0.11698E 07	0.3048	1.000	RUN NO. 94
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.0521E 05	1.000	74.76	1995.3	503.05	1.0000	1.000	

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-S-C)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	308.2	554.7	0.486	0.429	8.428	7.426	3.0788E-04	3.2506E-04	C.105
2	17	338.7	609.7	0.000	0.000	8.109	7.145	2.2336E-07	2.3638E-07	1.486
3	18	309.7	557.5	0.560	0.493	8.412	7.412	3.5505E-04	3.7490E-04	0.132
4	19	310.1	558.1	0.578	0.509	8.408	7.409	3.6673E-04	3.8724E-04	0.152
5	20	310.4	558.6	0.593	0.524	8.405	7.406	3.7781E-04	3.9895E-04	C.163
6	21	310.6	559.0	0.623	0.549	8.403	7.404	3.9577E-04	4.1792E-04	C.167
7	22	310.8	559.5	0.636	0.561	8.400	7.402	4.0426E-04	4.2690E-04	C.173
8	23	310.9	559.5	0.641	0.565	8.400	7.401	4.0659E-04	4.2978E-04	0.171
9	24	311.1	560.0	0.663	0.584	8.397	7.399	4.2151E-04	4.4512E-04	C.173
10	25	310.7	559.2	0.696	0.613	8.401	7.403	4.4214E-04	4.6689E-04	C.180
11	41	306.8	552.2	0.093	0.082	8.442	7.439	5.8611E-05	6.1875E-05	0.728
12	42	307.6	553.6	0.132	0.117	8.434	7.432	8.3734E-05	8.8402E-05	0.466
13	43	308.6	555.6	0.134	0.118	8.423	7.422	8.5068E-05	8.9817E-05	0.497
14	44	309.2	556.5	0.159	0.140	8.417	7.417	1.0061E-04	1.0623E-04	0.441
15	45	309.2	556.6	0.157	0.138	8.417	7.417	9.9466E-05	1.0502E-04	0.487
16	46	309.3	556.7	0.139	0.122	8.416	7.416	8.8037E-05	9.2957E-05	0.419
17	47	309.6	557.3	0.173	0.153	8.413	7.413	1.1000E-04	1.1615E-04	0.469
18	48	309.5	557.0	0.158	0.139	8.414	7.414	1.0034E-04	1.0595E-04	C.529
19	49	309.9	557.8	0.170	0.150	8.410	7.410	1.0802E-04	1.1406E-04	0.472
20	50	309.4	556.8	0.182	0.161	8.415	7.415	1.1557E-04	1.2203E-04	0.364
21	103	314.4	565.9	0.689	0.607	8.363	7.369	4.3992E-04	4.6468E-04	0.195
22	105	315.1	567.2	0.699	0.616	8.355	7.362	4.4651E-04	4.7167E-04	0.194
23	107	314.5	566.2	0.756	0.666	8.361	7.367	4.8247E-04	5.0963E-04	0.177
24	108	313.7	564.7	0.717	0.632	8.370	7.375	4.5753E-04	4.8326E-04	0.041
25	110	312.6	562.7	0.556	0.490	8.381	7.385	3.5402E-04	3.7390E-04	C.C05
26	111	312.2	562.0	0.464	0.409	8.386	7.389	2.9510E-04	3.1166E-04	C.139
27	112	311.3	560.3	0.304	0.268	8.395	7.397	1.9326E-04	2.0409E-04	0.416
28	113	310.6	559.0	0.175	0.154	8.403	7.404	1.1085E-04	1.1705E-04	0.593
29	114	309.5	557.1	0.046	0.041	8.414	7.414	2.9352E-05	3.0993E-05	0.685
30	115	308.5	555.3	0.008	0.007	8.424	7.423	5.2244E-06	5.5160E-06	C.096
31	203	312.6	562.7	0.689	0.607	8.381	7.385	4.3852E-04	4.6357E-04	0.181
32	205	313.1	563.6	0.640	0.564	8.376	7.380	4.0801E-04	4.3094E-04	0.179
33	207	312.8	563.0	0.646	0.569	8.380	7.384	4.1158E-04	4.3470E-04	0.191
34	208	312.2	561.9	0.624	0.550	8.386	7.389	3.9713E-04	4.1941E-04	C.090
35	210	311.3	560.3	0.494	0.435	8.396	7.398	3.1399E-04	3.3158E-04	C.005
36	211	310.9	559.6	0.419	0.369	8.399	7.401	2.6637E-04	2.8129E-04	0.139
37	212	310.2	558.4	0.289	0.254	8.407	7.407	1.8325E-04	1.9350E-04	C.400
38	213	338.7	609.7	0.000	0.000	8.109	7.145	1.1432E-14	1.2099E-14	*******
39	214	338.7	609.7	-0.001	-0.001	8.109	7.145	-6.2908E-07	-6.6575E-07	1.057
40	215	308.1	554.5	0.007	0.006	8.429	7.427	4.4186E-06	4.6650E-06	0.610
41	216	306.3	551.4	-0.003	-0.002	8.447	7.443	-1.6545E-06	-1.7465E-06	-2.421
42	217	306.2	551.2	0.000	0.000	8.448	7.444	2.5071E-07	2.6466E-07	17.987
43	218	306.1	550.9	0.003	0.003	8.450	7.446	1.9244E-06	2.0314E-06	3.180
44	219	305.9	550.7	-0.005	-0.004	8.451	7.447	-3.1391E-06	-3.3137E-06	-C.146
45	220	305.7	550.3	0.001	0.001	8.454	7.449	8.1026E-07	8.5530E-07	4.049
46	406	311.2	560.2	0.508	0.535	8.396	7.398	3.8618E-04	4.0782E-04	C.164
47	407	310.8	559.5	0.631	0.556	8.400	7.402	4.0100E-04	4.2346E-04	0.153
48	408	310.3	558.6	0.588	0.518	8.405	7.406	3.7307E-04	3.9395E-04	C.024
49	409	309.9	557.9	0.520	0.458	8.409	7.410	3.3007E-04	3.4853E-04	-0.057
50	410	309.6	557.2	0.436	0.385	8.413	7.413	2.7679E-04	2.9226E-04	0.001
51	411	309.3	556.8	0.374	0.329	8.416	7.416	2.3697E-04	2.5021E-04	0.146
52	412	308.5	555.3	0.226	0.199	8.424	7.423	1.4291E-04	1.5089E-04	0.462
53	413	307.6	553.6	0.109	0.096	8.434	7.432	6.8937E-05	7.2780E-05	0.663
54	414	307.4	553.2	0.022	0.020	8.436	7.434	1.4002E-05	1.4782E-05	1.306
55	415	306.9	552.5	0.004	0.003	8.441	7.437	2.5092E-06	2.6490E-06	2.264
56	416	306.5	551.7	0.004	0.004	8.445	7.441	2.7091E-06	2.8599E-06	2.462
57	417	306.2	551.2	0.005	0.004	8.448	7.444	2.9579E-06	3.1224E-06	1.993
58	418	306.0	550.8	-0.000	-0.000	8.451	7.446	-1.0040E-07	-1.0598E-07	-26.134
59	419	305.8	550.4	-0.001	-0.001	8.453	7.448	-7.5357E-07	-7.9547E-07	-1.943
60	420	305.8	550.4	-0.003	-0.002	8.453	7.448	-1.7550E-06	-1.8525E-06	0.167
61	506	310.5	558.8	0.549	0.484	8.404	7.405	3.4848E-04	3.6798E-04	C.126
62	507	310.1	558.2	0.546	0.481	8.407	7.408	3.4676E-04	3.6616E-04	0.104
63	508	309.7	557.4	0.503	0.443	8.412	7.412	3.1892E-04	3.3675E-04	-C.017
64	509	309.0	556.3	0.414	0.365	8.419	7.418	2.6256E-04	2.7722E-04	-0.126
65	510	308.6	555.4	0.350	0.308	8.424	7.422	2.2156E-04	2.3393E-04	-0.087
66	511	308.5	555.4	0.323	0.284	8.424	7.423	2.0430E-04	2.1571E-04	0.029
67	512	308.2	554.8	0.206	0.182	8.427	7.426	1.3047E-04	1.3775E-04	0.336
68	513	307.9	554.2	0.130	0.114	8.431	7.429	8.2117E-05	8.6696E-05	C.581
69	514	307.3	553.1	0.028	0.025	8.437	7.434	1.8018E-05	1.9022E-05	0.861
70	515	306.6	551.8	0.013	0.012	8.444	7.441	8.4261E-06	8.8952E-06	1.589
71	516	306.6	551.8	-0.008	-0.007	8.444	7.441	-5.3171E-06	-5.6130E-06	1.172
72	517	306.3	551.3	0.032	0.028	8.448	7.443	2.0263E-05	2.1390E-05	1.170
73	518	306.1	551.1	-0.018	-0.016	8.449	7.445	-1.1235E-05	-1.1860E-05	1.100
74	519	305.9	550.7	-0.001	-0.001	8.451	7.447	-8.5281E-07	-9.0024E-07	-0.973
75	520	305.7	550.3	0.004	0.004	8.454	7.449	2.7081E-06	2.8587E-06	1.257

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3367E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.642	3.877	3.460
PT2/PT1	4.872E-02	5.187E-02	4.629E-02
TEMP(DEG R)	2033.8	2021.4	2066.2
TT2/TT1	1.0142	1.0131	1.0355

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 35 FRAME 25 TO 52 CONSTANT SET 602

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8 1	5.10	0.1977E 07	303.28	2038.13	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.098	2038.653	0.272	0.228	774.658	-0.293	17.6092
0.070	303.098	2039.042	0.270	0.251	774.658	-0.306	17.6052
0.140	303.098	2039.559	0.270	0.412	780.075	-0.306	17.6052
0.210	303.281	2039.300	0.280	1.577	792.637	-0.293	17.5890
0.280	303.647	2038.782	0.410	4.477	923.878	-0.280	17.6011
0.350	303.098	2038.653	1.856	7.652	1536.343	-0.306	17.5890
0.420	303.098	2038.392	6.184	10.515	1906.604	-0.319	17.6092
0.490	303.281	2039.171	10.761	13.351	2012.250	-0.306	17.6092
0.560	303.281	2038.911	13.457	15.103	2048.687	-0.293	17.6011
0.630	303.281	2038.522	14.980	15.678	2062.927	-0.306	17.6052
0.700	303.281	2038.264	15.870	15.520	2082.278	-0.306	17.6092
0.770	303.098	2037.612	16.159	15.055	2100.272	-0.306	34.6172
0.840	303.281	2038.651	16.159	14.711	2108.604	-0.319	34.9077
0.910	303.281	2038.129	16.013	14.686	2098.989	-0.306	34.9158
0.980	303.464	2037.872	15.908	14.852	2104.119	-0.293	34.9077
1.050	303.281	2037.743	15.855	15.033	2098.989	-0.306	34.9037
1.120	303.281	2037.612	15.868	15.206	2116.922	-0.319	34.9158
1.190	303.281	2037.870	15.892	15.325	2130.968	-0.306	34.9319
1.260	303.281	2038.519	15.908	15.381	2117.562	-0.293	34.9158
1.330	303.464	2037.742	15.908	15.459	2121.396	-0.293	34.9117
1.400	303.281	2037.351	15.908	15.520	2141.159	-0.306	34.9117
1.470	303.281	2037.090	15.921	15.586	2132.881	-0.319	34.9238
1.540	303.098	2037.479	15.915	15.625	2111.805	-0.319	34.9238
1.610	303.281	2037.608	15.900	15.639	2136.066	-0.306	34.9158
1.680	303.464	2037.348	15.902	15.639	2135.429	-0.293	34.9158
1.750	303.281	2036.831	15.878	15.659	2098.989	-0.293	34.9077
1.820	303.281	2037.090	15.865	15.678	2108.604	-0.306	34.9117
1.890	303.464	2037.088	15.873	15.687	2143.704	-0.319	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.4878E 06	1.9775E 06	0.305	20.63	1132.3	0.11973E 07	0.3048	1.000	RUN NO. 35
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9775E 06	1.9775E 06	1.000	303.28	2038.1	514.88	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.261	0.3073	0.3073	0.3510	0.3705	39	214	0.284	0.0001	0.0001	0.0001	0.0001
2	2	0.284	0.0000	0.0000	0.0000	0.0000	40	215	0.258	0.0832	0.0832	0.0950	0.1002
3	3	0.284	0.0000	0.0000	0.0000	0.0000	41	216	0.254	0.0542	0.0542	0.0619	0.0652
4	4	0.262	0.3291	0.3291	0.3760	0.3969	42	217	0.256	0.0345	0.0345	0.0394	0.0416
5	5	0.262	0.3221	0.3221	0.3680	0.3884	43	218	0.253	0.0188	0.0188	0.0214	0.0226
6	6	0.261	0.3226	0.3226	0.3684	0.3889	44	219	0.253	0.0079	0.0079	0.0091	0.0096
7	7	0.262	0.3126	0.3126	0.3571	0.3769	45	220	0.253	0.0006	0.0006	0.0007	0.0008
8	8	0.263	0.3081	0.3081	0.3520	0.3716	46	406	0.261	0.2923	0.2923	0.3339	0.3524
9	9	0.261	0.2903	0.2903	0.3315	0.3499	47	407	0.261	0.3051	0.3051	0.3485	0.3678
10	10	0.260	0.2783	0.2783	0.3178	0.3354	48	408	0.260	0.3074	0.3074	0.3510	0.3705
11	11	0.261	0.2946	0.2946	0.3365	0.3551	49	409	0.260	0.2931	0.2931	0.3347	0.3532
12	12	0.261	0.3038	0.3038	0.3470	0.3663	50	410	0.259	0.2615	0.2615	0.2986	0.3151
13	13	0.261	0.2995	0.2995	0.3421	0.3611	51	411	0.259	0.2323	0.2323	0.2652	0.2798
14	14	0.262	0.2957	0.2957	0.3378	0.3566	52	412	0.258	0.1563	0.1563	0.1784	0.1882
15	15	0.262	0.2281	0.2281	0.2605	0.2750	53	413	0.256	0.0984	0.0984	0.1122	0.1184
16	103	0.265	0.3153	0.3153	0.3605	0.3806	54	414	0.256	0.0335	0.0335	0.0382	0.0403
17	105	0.266	0.3148	0.3148	0.3599	0.3800	55	415	0.255	0.0124	0.0124	0.0142	0.0150
18	107	0.266	0.3409	0.3409	0.3897	0.4115	56	416	0.254	0.0045	0.0045	0.0051	0.0054
19	108	0.265	0.3889	0.3889	0.4445	0.4693	57	417	0.254	0.0014	0.0014	0.0016	0.0017
20	110	0.263	0.3737	0.3737	0.4270	0.4508	58	418	0.254	0.0004	0.0004	0.0004	0.0004
21	111	0.263	0.3378	0.3378	0.3860	0.4075	59	419	0.253	-0.0001	-0.0001	-0.0001	-0.0001
22	112	0.262	0.2667	0.2667	0.3047	0.3216	60	420	0.253	-0.0006	-0.0006	-0.0007	-0.0007
23	113	0.261	0.1825	0.1825	0.2085	0.2201	61	506	0.261	0.2898	0.2898	0.3310	0.3494
24	114	0.260	0.0749	0.0749	0.0855	0.0903	62	507	0.261	0.2944	0.2944	0.3363	0.3549
25	115	0.259	0.0255	0.0255	0.0291	0.0307	63	508	0.260	0.3163	0.3163	0.3612	0.3812
26	116	0.258	0.0089	0.0089	0.0101	0.0107	64	509	0.259	0.3028	0.3028	0.3457	0.3649
27	117	0.257	0.0045	0.0045	0.0052	0.0055	65	510	0.258	0.2863	0.2863	0.3268	0.3448
28	118	0.257	0.0021	0.0021	0.0024	0.0025	66	511	0.258	0.2733	0.2733	0.3119	0.3291
29	119	0.256	0.0009	0.0009	0.0011	0.0011	67	512	0.257	0.2286	0.2286	0.2609	0.2753
30	120	0.255	0.0002	0.0002	0.0002	0.0002	68	513	0.257	0.1820	0.1820	0.2077	0.2192
31	203	0.263	0.3132	0.3132	0.3578	0.3777	69	514	0.256	0.1035	0.1035	0.1181	0.1246
32	205	0.263	0.3067	0.3067	0.3505	0.3700	70	515	0.255	0.0621	0.0621	0.0709	0.0748
33	207	0.263	0.3094	0.3094	0.3535	0.3732	71	516	0.255	0.0395	0.0395	0.0450	0.0475
34	208	0.263	0.3389	0.3389	0.3872	0.4087	72	517	0.255	0.0206	0.0206	0.0235	0.0248
35	210	0.262	0.3287	0.3287	0.3755	0.3964	73	518	0.254	0.0103	0.0103	0.0118	0.0124
36	211	0.261	0.3088	0.3088	0.3527	0.3722	74	519	0.254	0.0070	0.0070	0.0080	0.0084
37	212	0.260	0.2608	0.2608	0.2979	0.3144	75	520	0.253	0.0010	0.0010	0.0011	0.0012
38	213	0.284	0.0002	0.0002	0.0002	0.0002							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.4877E 06	1.9775E 06	0.305	20.63	1132.3	0.11973E 07	0.3048	1.000	RUN NO.	35
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9775E 06	1.9775E 06	1.000	303.28	2038.1	514.88	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(K/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	311.5	560.7	5.361	4.723	17.445	15.371	8.2608E-04	8.7192E-04	0.398
2	2	338.7	609.6	0.000	0.000	16.872	14.866	9.6718E-17	1.0229E-16	*******
3	3	338.7	609.7	0.000	0.000	16.871	14.866	2.4321E-16	2.5722E-16	*******
4	4	312.4	562.4	5.735	5.053	17.425	15.354	8.8486E-04	9.3403E-04	0.398
5	5	312.5	562.5	5.612	4.945	17.423	15.352	8.6592E-04	9.1404E-04	0.384
6	6	311.4	560.6	5.627	4.958	17.446	15.372	8.6713E-04	9.1524E-04	0.543
7	7	312.5	562.5	5.446	4.799	17.423	15.352	8.4035E-04	8.8704E-04	0.385
8	8	313.0	563.3	5.366	4.728	17.414	15.344	8.2843E-04	8.7449E-04	0.385
9	9	311.4	560.4	5.064	4.462	17.448	15.374	7.8029E-04	8.2358E-04	0.361
10	10	310.5	558.9	4.861	4.283	17.466	15.390	7.4806E-04	7.8951E-04	0.359
11	11	310.8	559.5	5.144	4.532	17.459	15.383	7.9196E-04	8.3587E-04	0.393
12	12	311.1	559.9	5.103	4.673	17.454	15.379	8.1674E-04	8.6204E-04	0.391
13	13	311.6	560.8	5.225	4.604	17.443	15.370	8.0521E-04	8.4989E-04	0.381
14	14	311.9	561.4	5.157	4.544	17.436	15.364	7.9504E-04	8.3919E-04	0.369
15	15	311.9	561.4	3.977	3.504	17.437	15.364	6.1318E-04	6.4722E-04	0.368
16	103	316.1	569.0	5.470	4.820	17.347	15.285	8.4803E-04	8.9539E-04	0.382
17	105	317.3	571.1	5.453	4.805	17.322	15.263	8.4663E-04	8.9398E-04	0.385
18	107	316.7	570.0	5.909	5.207	17.336	15.275	9.1675E-04	9.6799E-04	0.418
19	108	315.6	568.0	6.791	5.948	17.359	15.296	1.0458E-03	1.1042E-03	0.334
20	110	314.0	565.1	6.500	5.727	17.393	15.325	1.0048E-03	1.0608E-03	0.111
21	111	313.6	564.4	5.878	5.180	17.401	15.333	9.0830E-04	9.5885E-04	0.165
22	112	312.3	562.2	4.648	4.095	17.427	15.356	7.1702E-04	7.5685E-04	0.384
23	113	311.4	560.5	3.185	2.806	17.447	15.373	4.9069E-04	5.1791E-04	0.466
24	114	309.7	557.4	1.310	1.154	17.484	15.406	2.0134E-04	2.1248E-04	0.489
25	115	308.4	555.1	0.446	0.393	17.511	15.430	6.8401E-05	7.2180E-05	0.475
26	116	307.4	553.3	0.156	0.137	17.532	15.448	2.3879E-05	2.5196E-05	0.419
27	117	306.5	551.7	0.080	0.070	17.550	15.464	1.2222E-05	1.2895E-05	0.490
28	118	305.9	550.7	0.037	0.032	17.562	15.475	5.6230E-06	5.9327E-06	0.272
29	119	305.4	549.7	0.017	0.015	17.574	15.485	2.5359E-06	2.6797E-06	0.379
30	120	304.6	548.3	0.003	0.003	17.591	15.500	5.2503E-07	5.5389E-07	2.753
31	203	313.3	564.0	5.451	4.803	17.406	15.337	8.4203E-04	8.8887E-04	0.360
32	205	314.0	565.3	5.334	4.700	17.391	15.324	8.2473E-04	8.7066E-04	0.368
33	207	313.8	564.8	5.382	4.742	17.397	15.329	8.3178E-04	8.7808E-04	0.391
34	208	313.0	563.4	5.901	5.199	17.413	15.343	9.1112E-04	9.6179E-04	0.363
35	210	311.8	561.3	5.733	5.051	17.438	15.365	8.8379E-04	9.3285E-04	0.200
36	211	311.3	560.4	5.387	4.747	17.448	15.374	8.3002E-04	8.7607E-04	0.265
37	212	310.3	558.5	4.557	4.015	17.471	15.394	7.0113E-04	7.3597E-04	0.421
38	213	338.7	609.6	0.003	0.003	16.872	14.866	5.0730E-07	5.3654E-07	1.085
39	214	338.7	609.7	0.002	0.001	16.871	14.865	2.5345E-07	2.6806E-07	1.416
40	215	307.0	552.7	1.460	1.286	17.539	15.454	2.2367E-04	2.3601E-04	0.431
41	216	302.4	544.4	0.956	0.843	17.636	15.540	1.4568E-04	1.5366E-04	0.459
42	217	305.0	549.1	0.607	0.535	17.581	15.492	9.2738E-05	9.7839E-05	0.628
43	218	302.0	543.7	0.331	0.292	17.645	15.547	5.0461E-05	5.3225E-05	0.474
44	219	301.6	542.9	0.140	0.124	17.654	15.556	2.1347E-05	2.2516E-05	0.705
45	220	301.4	542.5	0.011	0.010	17.658	15.559	1.6836E-06	1.7757E-06	4.964
46	406	311.1	560.0	5.102	4.495	17.454	15.379	7.8577E-04	8.2935E-04	0.362
47	407	310.9	559.6	5.327	4.694	17.458	15.383	8.2024E-04	8.6572E-04	0.380
48	408	310.1	558.2	5.371	4.733	17.474	15.397	8.2621E-04	8.7197E-04	0.317
49	409	309.5	557.1	5.126	4.516	17.487	15.408	7.8785E-04	8.3145E-04	0.188
50	410	309.0	556.2	4.575	4.031	17.497	15.417	7.0277E-04	7.4164E-04	0.160
51	411	308.5	555.2	4.067	3.583	17.509	15.428	6.2423E-04	6.5873E-04	0.233
52	412	307.0	552.6	2.741	2.416	17.540	15.455	4.2000E-04	4.4316E-04	0.454
53	413	305.0	549.1	1.729	1.524	17.582	15.492	2.6425E-04	2.7879E-04	0.533
54	414	304.9	548.7	0.589	0.519	17.585	15.495	9.0047E-05	9.4999E-05	0.507
55	415	304.1	547.5	0.219	0.193	17.600	15.508	3.3393E-05	3.5227E-05	0.434
56	416	303.3	545.9	0.079	0.069	17.618	15.524	1.2021E-05	1.2681E-05	0.468
57	417	302.6	544.7	0.025	0.022	17.633	15.537	3.7924E-06	4.0003E-06	0.599
58	418	302.2	544.0	0.006	0.005	17.641	15.544	9.4029E-07	9.9181E-07	2.011
59	419	302.0	543.7	-0.002	-0.002	17.645	15.547	-3.3360E-07	-3.5187E-07	-10.124
60	420	301.9	543.5	-0.010	-0.009	17.649	15.551	-1.5767E-06	-1.6631E-06	-2.615
61	506	311.4	560.6	5.055	4.454	17.446	15.372	7.7899E-04	8.2221E-04	0.366
62	507	310.6	559.1	5.142	4.531	17.463	15.387	7.9146E-04	8.3533E-04	0.383
63	508	309.9	557.7	5.528	4.871	17.479	15.402	8.5014E-04	8.9721E-04	0.370
64	509	308.4	555.0	5.303	4.673	17.511	15.430	8.1391E-04	8.5888E-04	0.232
65	510	307.8	554.1	5.016	4.419	17.522	15.439	7.6928E-04	8.1176E-04	0.220
66	511	307.3	553.2	4.791	4.222	17.533	15.449	7.3435E-04	7.7487E-04	0.247
67	512	307.0	552.5	4.610	3.533	17.541	15.456	6.1428E-04	6.4816E-04	0.438
68	513	306.2	551.2	3.195	2.816	17.556	15.469	4.8907E-04	5.1602E-04	0.523
69	514	305.3	549.6	1.819	1.603	17.576	15.486	2.7803E-04	2.9333E-04	0.542
70	515	304.2	547.6	1.094	0.964	17.599	15.507	1.6696E-04	1.7614E-04	0.572
71	516	304.1	547.4	0.695	0.612	17.601	15.509	1.0604E-04	1.1187E-04	0.607
72	517	303.5	546.3	0.363	0.320	17.613	15.520	5.5360E-05	5.8398E-05	0.549
73	518	303.1	545.5	0.182	0.160	17.623	15.528	2.7722E-05	2.9243E-05	0.397
74	519	302.4	544.4	0.123	0.108	17.637	15.540	1.8723E-05	1.9750E-05	0.468
75	520	301.8	543.2	0.017	0.015	17.650	15.552	2.5770E-06	2.7181E-06	3.002

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3372E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.526	15.873	15.687
PT2/PT1	5.449E-02	5.234E-02	5.172E-02
TEMP(DEG R)	2097.1	2143.7	2168.4
TT2/TT1	1.0289	1.0918	1.0639

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 F.. HT DATA TEST NO. 192 RUN NO. 36 FRAME 26 TC 52 CONSTANT SET 602

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1 5.1C	0.1486E 07	303.60	2034.09	1.CCCC

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.416	2033.568	0.272	0.316	780.075	-0.299	17.6074
0.070	303.416	2033.051	0.272	0.330	780.075	-0.299	17.6115
0.140	303.233	2033.439	0.269	0.452	784.573	-0.299	17.6155
0.210	303.416	2034.219	0.272	1.453	797.098	-0.299	17.6115
0.280	303.599	2033.830	0.370	4.450	913.928	-0.286	17.6074
0.350	303.599	2033.180	1.685	7.756	1474.112	-0.299	17.6074
0.420	303.416	2033.051	5.796	10.572	1891.227	-0.325	17.6074
0.490	303.416	2033.439	10.384	13.419	1982.112	-0.325	17.6115
0.560	303.416	2033.959	13.110	15.241	1982.112	-0.299	17.6074
0.630	303.782	2033.569	14.778	15.883	1982.112	-0.299	17.6074
0.700	303.416	2032.791	15.792	15.719	1995.239	-0.299	17.6074
0.770	303.233	2032.791	16.191	15.260	2060.341	-0.312	34.8154
0.840	303.233	2033.698	16.199	14.907	2057.753	-0.325	34.9203
0.910	303.599	2034.090	16.062	14.829	2072.612	-0.312	34.9082
0.980	303.599	2033.179	15.969	14.968	2095.138	-0.299	34.9163
1.050	303.416	2033.051	15.937	15.174	2083.566	-0.299	34.9203
1.120	303.416	2032.920	15.943	15.385	2082.278	-0.325	34.9203
1.190	303.233	2033.179	15.961	15.507	2092.568	-0.312	34.9203
1.260	303.416	2033.831	15.969	15.580	2098.989	-0.312	34.9122
1.330	303.599	2033.572	15.969	15.624	2105.401	-0.299	34.9163
1.400	303.416	2033.312	15.988	15.674	2111.805	-0.312	34.9243
1.470	303.416	2033.443	15.988	15.744	2090.641	-0.312	34.9284
1.540	303.233	2033.701	15.953	15.797	2073.257	-0.312	34.9284
1.610	303.416	2033.961	15.929	15.855	2071.322	-0.299	34.9284
1.680	303.416	2033.701	15.916	15.894	2088.069	-0.299	34.9203
1.750	303.416	2033.441	15.935	15.913	2103.478	-0.312	34.9243
1.820	303.599	2033.311	15.943	15.913	2091.926	-0.312	34.9324

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	RFL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.5164E 06	1.9862E 06	0.305	20.65	1130.1	0.11947E 07	0.3048	1.000	RUN NO.	36
MACH	RE/FT	RFL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9862E 06	1.9862E 06	1.000	303.60	2034.1	513.76	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.266	0.3105	0.3105	0.3550	0.3749	39	214	0.285	0.0001	0.0001	0.0001	0.0001
2	2	0.285	-0.0000	-0.0000	-0.0000	-0.0000	40	215	0.262	0.2368	0.2368	0.2705	0.2856
3	3	0.266	0.3175	0.3175	0.3630	0.3833	41	216	0.258	0.2017	0.2017	0.2302	0.2429
4	4	0.267	0.3217	0.3217	0.3678	0.3884	42	217	0.260	0.1783	0.1783	0.2036	0.2149
5	5	0.267	0.3116	0.3116	0.3563	0.3763	43	218	0.258	0.1425	0.1425	0.1626	0.1716
6	6	0.267	0.3121	0.3121	0.3568	0.3768	44	219	0.257	0.0949	0.0949	0.1084	0.1143
7	7	0.267	0.2869	0.2869	0.3281	0.3465	45	220	0.257	0.0224	0.0224	0.0256	0.0270
8	8	0.267	0.3014	0.3014	0.3446	0.3639	46	406	0.265	0.2665	0.2665	0.3046	0.3216
9	9	0.266	0.2967	0.2967	0.3393	0.3582	47	407	0.265	0.2572	0.2572	0.2940	0.3104
10	10	0.265	0.2766	0.2766	0.3162	0.3338	48	408	0.264	0.2395	0.2395	0.2737	0.2890
11	11	0.265	0.2360	0.2360	0.2698	0.2849	49	409	0.264	0.2262	0.2262	0.2585	0.2729
12	12	0.265	0.2100	0.2100	0.2401	0.2535	50	410	0.264	0.2042	0.2042	0.2334	0.2464
13	13	0.266	0.2095	0.2095	0.2395	0.2528	51	411	0.263	0.1863	0.1863	0.2128	0.2247
14	14	0.266	0.1509	0.1509	0.1725	0.1822	52	412	0.262	0.1418	0.1418	0.1620	0.1710
15	15	0.266	0.1040	0.1040	0.1189	0.1256	53	413	0.260	0.1105	0.1105	0.1262	0.1332
16	103	0.270	0.3080	0.3080	0.3524	0.3723	54	414	0.260	0.0788	0.0788	0.0900	0.0950
17	105	0.271	0.3041	0.3041	0.3480	0.3676	55	415	0.260	0.0683	0.0683	0.0780	0.0823
18	107	0.270	0.3477	0.3477	0.3979	0.4203	56	416	0.259	0.0599	0.0599	0.0683	0.0721
19	108	0.270	0.4550	0.4550	0.5206	0.5499	57	417	0.258	0.0513	0.0513	0.0585	0.0617
20	110	0.268	0.5051	0.5051	0.5777	0.6102	58	418	0.258	0.0405	0.0405	0.0462	0.0488
21	111	0.268	0.4825	0.4825	0.5518	0.5828	59	419	0.257	0.0249	0.0249	0.0284	0.0300
22	112	0.267	0.4274	0.4274	0.4888	0.5162	60	420	0.257	0.0039	0.0039	0.0044	0.0047
23	113	0.266	0.3416	0.3416	0.3906	0.4125	61	506	0.265	0.2682	0.2682	0.3065	0.3236
24	114	0.265	0.2182	0.2182	0.2494	0.2633	62	507	0.264	0.2368	0.2368	0.2706	0.2857
25	115	0.264	0.1418	0.1418	0.1620	0.1710	63	508	0.264	0.2008	0.2008	0.2295	0.2423
26	116	0.263	0.0991	0.0991	0.1132	0.1195	64	509	0.263	0.1613	0.1613	0.1843	0.1945
27	117	0.262	0.0781	0.0781	0.0893	0.0942	65	510	0.262	0.1401	0.1401	0.1600	0.1689
28	118	0.261	0.0625	0.0625	0.0714	0.0753	66	511	0.262	0.1276	0.1276	0.1458	0.1539
29	119	0.261	0.0391	0.0391	0.0446	0.0471	67	512	0.262	0.0900	0.0900	0.1028	0.1085
30	120	0.260	0.0062	0.0062	0.0070	0.0074	68	513	0.261	0.0617	0.0617	0.0705	0.0744
31	203	0.267	0.3267	0.3267	0.3736	0.3945	69	514	0.260	0.0311	0.0311	0.0355	0.0375
32	205	0.268	0.3166	0.3166	0.3621	0.3824	70	515	0.260	0.0224	0.0224	0.0255	0.0270
33	207	0.268	0.3435	0.3435	0.3929	0.4149	71	516	0.260	0.0193	0.0193	0.0221	0.0233
34	208	0.267	0.3857	0.3857	0.4410	0.4657	72	517	0.259	0.0166	0.0166	0.0190	0.0201
35	210	0.266	0.3777	0.3777	0.4318	0.4560	73	518	0.258	0.0129	0.0129	0.0147	0.0155
36	211	0.266	0.3629	0.3629	0.4149	0.4381	74	519	0.258	0.0064	0.0064	0.0073	0.0077
37	212	0.265	0.3300	0.3300	0.3772	0.3983	75	520	0.257	0.0015	0.0015	0.0017	0.0018
38	213	0.285	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5164E 06	1.9862E 06	0.305	20.65	1130.1	0.11947E 07	0.304E	1.000	RUN NO. 36
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9862E 06	1.9862E 06	1.000	303.60	2034.1	513.76	1.0000	1.000	

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	316.0	568.8	5.374	4.736	17.307	15.250	8.3355E-04	8.8014E-04	0.402
2	2	338.7	609.6	-0.000	-0.000	16.830	14.829	-7.5574E-18	-7.9935E-18	*******
3	3	317.0	570.5	5.489	4.836	17.288	15.233	8.5230E-04	9.0000E-04	0.411
4	4	317.1	570.8	5.560	4.899	17.285	15.230	8.6349E-04	9.1183E-04	0.404
5	5	317.3	571.1	5.385	4.745	17.281	15.227	8.3695E-04	8.8339E-04	0.387
6	6	317.1	570.8	5.394	4.753	17.284	15.230	8.3776E-04	8.8465E-04	0.385
7	7	317.3	571.1	4.958	4.369	17.280	15.226	7.7038E-04	8.1343E-04	0.401
8	8	317.7	571.8	5.205	4.587	17.273	15.220	8.0905E-04	8.5436E-04	0.374
9	9	316.1	568.9	5.136	4.525	17.307	15.250	7.9655E-04	8.4108E-04	0.365
10	10	314.9	566.8	4.794	4.224	17.332	15.271	7.4242E-04	7.8385E-04	0.349
11	11	315.2	567.4	4.089	3.603	17.324	15.265	6.3355E-04	6.6892E-04	0.309
12	12	315.5	567.9	3.637	3.205	17.318	15.259	5.6378E-04	5.9526E-04	0.274
13	13	316.1	568.9	3.625	3.194	17.306	15.249	5.6225E-04	5.9368E-04	0.281
14	14	316.8	570.2	2.609	2.299	17.292	15.236	4.0503E-04	4.2769E-04	0.144
15	15	316.7	570.1	1.798	1.585	17.293	15.237	2.7916E-04	2.9478E-04	0.115
16	103	320.8	577.5	5.300	4.670	17.205	15.160	8.2724E-04	8.7378E-04	0.376
17	105	322.0	579.6	5.225	4.604	17.181	15.138	8.1672E-04	8.6275E-04	0.381
18	107	321.6	578.8	5.977	5.266	17.190	15.147	9.3378E-04	9.8637E-04	0.441
19	108	320.6	577.1	7.831	6.900	17.210	15.165	1.2219E-03	1.2906E-03	0.368
20	110	319.1	574.5	8.709	7.673	17.241	15.192	1.3562E-03	1.4323E-03	0.149
21	111	318.7	573.7	8.323	7.333	17.250	15.200	1.2954E-03	1.3681E-03	0.168
22	112	317.6	571.6	7.384	6.506	17.275	15.222	1.1475E-03	1.2118E-03	0.334
23	113	316.7	570.0	5.908	5.206	17.294	15.238	9.1708E-04	9.6838E-04	0.444
24	114	315.0	567.0	3.781	3.332	17.329	15.270	5.8561E-04	6.1829E-04	0.461
25	115	313.6	564.4	2.461	2.169	17.359	15.296	3.8048E-04	4.0168E-04	0.400
26	116	312.6	562.7	1.722	1.518	17.379	15.313	2.6594E-04	2.8074E-04	0.430
27	117	311.7	561.1	1.360	1.198	17.398	15.330	2.0968E-04	2.2133E-04	0.419
28	118	311.0	559.9	1.088	0.959	17.413	15.343	1.6764E-04	1.7695E-04	0.342
29	119	310.3	558.5	0.681	0.600	17.429	15.357	1.0479E-04	1.1060E-04	0.338
30	120	309.3	556.7	0.107	0.095	17.450	15.376	1.6511E-05	1.7425E-05	0.898
31	203	317.6	571.8	5.643	4.972	17.273	15.220	8.7705E-04	9.2618E-04	0.373
32	205	318.4	573.1	5.463	4.814	17.257	15.206	8.4993E-04	8.9759E-04	0.380
33	207	318.3	572.9	5.929	5.225	17.259	15.208	9.2236E-04	9.7407E-04	0.405
34	208	317.7	571.9	6.661	5.869	17.271	15.218	1.0354E-03	1.0934E-03	0.339
35	210	316.6	569.9	6.532	5.756	17.295	15.239	1.0139E-03	1.0706E-03	0.181
36	211	316.1	569.0	6.280	5.533	17.305	15.248	9.7410E-04	1.0285E-03	0.266
37	212	315.1	567.1	5.718	5.039	17.327	15.268	8.8580E-04	9.3524E-04	0.426
38	213	338.7	609.7	-0.000	-0.000	16.830	14.829	-3.1269E-14	-3.3073E-14	*******
39	214	338.7	609.7	0.001	0.001	16.829	14.828	1.5841E-07	1.6755E-07	0.348
40	215	311.9	561.5	4.119	3.629	17.394	15.326	6.3537E-04	6.7068E-04	0.366
41	216	307.1	552.7	3.528	3.109	17.497	15.417	5.4088E-04	5.7074E-04	0.371
42	217	309.7	557.5	3.109	2.739	17.440	15.367	4.7824E-04	5.0474E-04	0.520
43	218	306.6	551.8	2.494	2.198	17.507	15.426	3.8208E-04	4.0316E-04	0.354
44	219	306.0	550.7	1.663	1.466	17.520	15.437	2.5462E-04	2.6865E-04	0.348
45	220	305.6	550.2	0.393	0.346	17.527	15.443	6.0087E-05	6.3398E-05	0.875
46	406	315.1	567.2	4.617	4.068	17.326	15.267	7.1522E-04	7.5514E-04	0.367
47	407	315.1	567.2	4.456	3.927	17.326	15.267	6.9036E-04	7.2890E-04	0.384
48	408	314.5	566.0	4.153	3.659	17.340	15.279	6.4276E-04	6.7860E-04	0.341
49	409	314.0	565.2	3.925	3.458	17.350	15.287	6.0710E-04	6.4094E-04	0.234
50	410	313.5	564.3	3.546	3.124	17.360	15.297	5.4813E-04	5.7866E-04	0.214
51	411	313.0	563.3	3.236	2.851	17.372	15.307	4.9983E-04	5.2765E-04	0.273
52	412	311.6	560.8	2.467	2.174	17.401	15.333	3.8042E-04	4.0156E-04	0.426
53	413	309.7	557.5	1.928	1.698	17.441	15.368	2.9651E-04	3.1294E-04	0.464
54	414	309.5	557.1	1.375	1.212	17.445	15.372	2.1147E-04	2.2318E-04	0.399
55	415	308.7	555.6	1.193	1.051	17.462	15.387	1.8326E-04	1.9340E-04	0.376
56	416	307.8	554.0	1.046	0.922	17.481	15.403	1.6055E-04	1.6942E-04	0.386
57	417	306.9	552.4	0.897	0.790	17.500	15.420	1.3749E-04	1.4508E-04	0.375
58	418	306.6	551.8	0.709	0.625	17.507	15.426	1.0859E-04	1.1458E-04	0.372
59	419	306.2	551.2	0.436	0.384	17.514	15.432	6.6798E-05	7.0482E-05	0.422
60	420	305.8	550.5	0.068	0.060	17.523	15.440	1.0367E-05	1.0939E-05	1.472
61	506	315.2	567.4	4.645	4.093	17.324	15.265	7.1474E-04	7.5992E-04	0.364
62	507	314.5	566.0	4.106	3.618	17.340	15.279	6.3548E-04	6.7092E-04	0.360
63	508	313.7	564.7	3.485	3.071	17.356	15.293	5.3892E-04	5.6895E-04	0.362
64	509	312.4	562.4	2.803	2.470	17.383	15.317	4.3274E-04	4.5681E-04	0.276
65	510	312.0	561.6	2.436	2.146	17.392	15.324	3.7583E-04	3.9672E-04	0.261
66	511	311.5	560.7	2.221	1.957	17.403	15.335	3.4237E-04	3.6139E-04	0.285
67	512	311.3	560.3	1.967	1.380	17.407	15.338	2.4147E-04	2.5488E-04	0.450
68	513	310.7	559.2	1.075	0.948	17.420	15.350	1.6563E-04	1.7482E-04	0.515
69	514	309.8	557.7	0.542	0.477	17.438	15.365	8.3364E-05	8.7983E-05	0.463
70	515	308.7	555.7	0.391	0.344	17.462	15.386	5.9598E-05	6.3318E-05	0.378
71	516	308.7	555.7	0.337	0.297	17.462	15.386	5.1812E-05	5.4678E-05	0.381
72	517	308.0	554.5	0.291	0.256	17.476	15.399	4.4650E-05	4.7118E-05	0.377
73	518	307.5	553.5	0.225	0.198	17.488	15.409	3.4508E-05	3.6414E-05	0.444
74	519	306.7	552.1	0.111	0.098	17.504	15.423	1.7071E-05	1.8013E-05	0.526
75	520	305.7	550.3	0.026	0.023	17.525	15.442	4.0432E-06	4.2660E-06	1.882

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3508E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	14.490	15.943	15.913
PT2/PT1	5.432E-02	5.251E-02	5.242E-02
TEMP(DEG R)	2039.0	2091.9	2143.7
TT2/TT1	1.0024	1.0284	1.0539

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 37 FRAME 26 TO 53 CONSTANT SET 602

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.2006E 07	303.71	2022.38	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.715	2020.683	0.288	0.378	772.847	-0.292	17.6097
0.070	303.715	2020.683	0.285	0.389	774.658	-0.318	17.6097
0.140	303.715	2020.814	0.285	0.509	776.466	-0.305	17.6097
0.210	303.715	2022.244	0.288	1.407	791.743	-0.305	17.6097
0.280	303.715	2020.683	0.367	4.221	872.750	-0.292	17.5976
0.350	303.715	2021.074	1.534	7.597	1433.709	-0.305	17.6016
0.420	303.715	2020.943	5.479	10.481	1848.863	-0.331	17.6016
0.490	303.715	2021.205	10.291	13.414	1951.785	-0.318	17.6016
0.560	303.715	2022.374	13.285	15.305	1979.483	-0.318	17.6056
0.630	303.715	2021.465	15.024	15.998	1968.291	-0.305	17.6016
0.700	303.715	2021.335	16.040	15.886	2008.329	-0.305	17.6056
0.770	303.715	2021.205	16.424	15.469	2025.294	-0.318	27.4291
0.840	303.715	2021.466	16.377	15.111	2034.405	-0.318	34.9208
0.910	303.715	2022.377	16.213	15.055	2040.252	-0.305	34.9087
0.980	303.898	2021.858	16.107	15.233	2053.870	-0.292	34.9047
1.050	303.715	2021.596	16.078	15.458	2079.703	-0.305	34.9128
1.120	303.532	2021.858	16.120	15.636	2073.257	-0.318	34.8966
1.190	303.532	2021.988	16.128	15.722	2060.341	-0.318	34.9128
1.260	303.715	2022.898	16.120	15.820	2091.283	-0.318	34.9208
1.330	303.898	2022.248	16.130	15.903	2092.568	-0.305	34.9128
1.400	303.715	2021.988	16.128	15.973	2071.967	-0.305	34.9128
1.540	303.532	2022.118	16.128	16.056	2104.760	-0.318	34.9289
1.610	303.715	2022.638	16.120	16.064	2055.812	-0.318	34.9289
1.680	303.715	2022.118	16.091	16.059	2069.386	-0.305	34.9208
1.750	303.715	2021.988	16.078	16.089	2082.922	-0.305	34.9208
1.820	303.532	2021.856	16.083	16.151	2079.703	-0.331	25.0126

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.5827E 06	2.0064E 06	0.305	20.66	1123.5	0.11872E 07	0.3048	1.000	RUN NO.	37
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.0064E 06	2.0064E 06	1.000	303.71	2022.4	510.52	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.269	0.3235	0.3235	0.3701	0.3909	39	214	0.287	0.0000	0.0000	0.0000	0.0000
2	2	0.287	-0.0000	-0.0000	-0.0000	-0.0000	40	215	0.266	0.2939	0.2939	0.3360	0.3548
3	3	0.269	0.3082	0.3082	0.3526	0.3724	41	216	0.262	0.2526	0.2526	0.2885	0.3045
4	4	0.269	0.3183	0.3183	0.3642	0.3846	42	217	0.264	0.2061	0.2061	0.2356	0.2487
5	5	0.270	0.3242	0.3242	0.3709	0.3917	43	218	0.262	0.1591	0.1591	0.1817	0.1918
6	6	0.269	0.3311	0.3311	0.3788	0.4001	44	219	0.261	0.1029	0.1029	0.1176	0.1241
7	7	0.270	0.2894	0.2894	0.3311	0.3498	45	220	0.261	0.0222	0.0222	0.0254	0.0268
8	8	0.270	0.3022	0.3022	0.3458	0.3653	46	406	0.268	0.2514	0.2514	0.2876	0.3037
9	9	0.269	0.3046	0.3046	0.3484	0.3680	47	407	0.268	0.2344	0.2344	0.2681	0.2832
10	10	0.268	0.2823	0.2823	0.3229	0.3410	48	408	0.268	0.2192	0.2192	0.2506	0.2647
11	11	0.269	0.2493	0.2493	0.2851	0.3011	49	409	0.267	0.2130	0.2130	0.2436	0.2572
12	12	0.269	0.2183	0.2183	0.2497	0.2638	50	410	0.267	0.1979	0.1979	0.2263	0.2390
13	13	0.269	0.1990	0.1990	0.2276	0.2404	51	411	0.266	0.1832	0.1832	0.2094	0.2212
14	14	0.270	0.1651	0.1651	0.1889	0.1996	52	412	0.265	0.1487	0.1487	0.1700	0.1795
15	15	0.270	0.1031	0.1031	0.1180	0.1246	53	413	0.264	0.1239	0.1239	0.1416	0.1495
16	103	0.273	0.3107	0.3107	0.3557	0.3758	54	414	0.264	0.0990	0.0990	0.1132	0.1195
17	105	0.274	0.3065	0.3065	0.3509	0.3708	55	415	0.263	0.0876	0.0876	0.1001	0.1057
18	107	0.273	0.3256	0.3256	0.3728	0.3939	56	416	0.262	0.0754	0.0754	0.0862	0.0910
19	108	0.272	0.4020	0.4020	0.4602	0.4862	57	417	0.262	0.0633	0.0633	0.0723	0.0763
20	110	0.271	0.4502	0.4502	0.5152	0.5443	58	418	0.262	0.0475	0.0475	0.0543	0.0573
21	111	0.271	0.4345	0.4345	0.4972	0.5252	59	419	0.261	0.0285	0.0285	0.0326	0.0344
22	112	0.270	0.3906	0.3906	0.4469	0.4721	60	420	0.261	0.0047	0.0047	0.0053	0.0056
23	113	0.269	0.3162	0.3162	0.3617	0.3820	61	506	0.268	0.2557	0.2557	0.2925	0.3089
24	114	0.268	0.1992	0.1992	0.2278	0.2406	62	507	0.268	0.2167	0.2167	0.2478	0.2617
25	115	0.267	0.1135	0.1135	0.1298	0.1370	63	508	0.267	0.1715	0.1715	0.1961	0.2071
26	116	0.266	0.0648	0.0648	0.0741	0.0782	64	509	0.266	0.1359	0.1359	0.1554	0.1641
27	117	0.265	0.0416	0.0416	0.0476	0.0502	65	510	0.266	0.1181	0.1181	0.1351	0.1426
28	118	0.265	0.0326	0.0326	0.0373	0.0393	66	511	0.265	0.1069	0.1069	0.1222	0.1290
29	119	0.264	0.0207	0.0207	0.0236	0.0249	67	512	0.265	0.0776	0.0776	0.0887	0.0936
30	120	0.264	0.0026	0.0026	0.0030	0.0032	68	513	0.265	0.0568	0.0568	0.0649	0.0686
31	203	0.270	0.3232	0.3232	0.3698	0.3906	69	514	0.264	0.0357	0.0357	0.0408	0.0431
32	205	0.271	0.3239	0.3239	0.3706	0.3915	70	515	0.263	0.0289	0.0289	0.0330	0.0348
33	207	0.271	0.3234	0.3234	0.3701	0.3909	71	516	0.263	0.0279	0.0279	0.0319	0.0337
34	208	0.270	0.3886	0.3886	0.4446	0.4697	72	517	0.263	0.0217	0.0217	0.0248	0.0262
35	210	0.269	0.4361	0.4361	0.4989	0.5269	73	518	0.262	0.0173	0.0173	0.0197	0.0208
36	211	0.269	0.4293	0.4293	0.4911	0.5186	74	519	0.262	0.0091	0.0091	0.0104	0.0110
37	212	0.268	0.3958	0.3958	0.4528	0.4782	75	520	0.261	0.0013	0.0013	0.0014	0.0015
38	213	0.267	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5627E 06	2.0064E 06	0.305	20.66	1123.5	0.11872E 07	0.3048	1.000	RUN NO. 37
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0064E 06	2.0064E 06	1.000	303.71	2022.4	510.52	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	317.5	571.4	5.543	4.884	17.132	15.096	8.6496E-04	9.1354E-04	0.411
2	2	338.7	609.6	-0.000	-0.000	16.685	14.702	-2.8109E-17	-2.9736E-17	*******
3	3	318.3	572.9	5.275	4.648	17.115	15.081	8.2405E-04	8.7038E-04	0.396
4	4	318.4	573.1	5.447	4.800	17.113	15.078	8.5105E-04	8.9891E-04	0.392
5	5	318.6	573.4	5.546	4.887	17.109	15.075	8.6677E-04	9.1552E-04	0.389
6	6	318.4	573.2	5.666	4.993	17.112	15.078	8.8533E-04	9.3512E-04	0.388
7	7	318.9	574.0	4.950	4.361	17.103	15.070	7.7381E-04	8.1736E-04	0.387
8	8	319.3	574.8	5.166	4.552	17.093	15.061	8.0806E-04	8.5356E-04	0.382
9	9	317.9	572.3	5.215	4.595	17.122	15.087	8.1434E-04	8.6010E-04	0.366
10	10	317.0	570.6	4.839	4.264	17.142	15.105	7.5471E-04	7.9707E-04	0.351
11	11	317.5	571.4	4.271	3.763	17.132	15.096	6.6642E-04	7.0385E-04	0.333
12	12	317.8	572.1	3.738	3.294	17.125	15.089	5.8365E-04	6.1644E-04	0.296
13	13	318.4	573.2	3.405	3.000	17.112	15.078	5.3202E-04	5.6193E-04	0.283
14	14	319.2	574.5	2.823	2.487	17.096	15.064	4.4151E-04	4.6636E-04	0.227
15	15	319.1	574.3	1.763	1.553	17.099	15.066	2.7569E-04	2.9121E-04	0.138
16	103	322.3	580.1	5.292	4.663	17.030	15.006	8.3108E-04	8.7807E-04	0.377
17	105	323.4	582.1	5.212	4.593	17.007	14.986	8.1978E-04	8.6620E-04	0.373
18	107	322.8	581.1	5.542	4.883	17.019	14.996	8.7099E-04	9.2027E-04	0.410
19	108	321.9	579.5	6.850	6.036	17.038	15.013	1.0753E-03	1.1361E-03	0.381
20	110	320.6	577.0	7.683	6.770	17.067	15.038	1.2040E-03	1.2719E-03	0.209
21	111	320.1	576.2	7.419	6.537	17.076	15.046	1.1618E-03	1.2273E-03	0.223
22	112	319.0	574.3	6.679	5.885	17.099	15.066	1.0444E-03	1.1032E-03	0.338
23	113	318.2	572.7	5.412	4.769	17.117	15.082	8.4535E-04	8.9287E-04	0.410
24	114	316.7	570.0	3.415	3.009	17.149	15.111	5.3242E-04	5.6228E-04	0.424
25	115	315.4	567.8	1.949	1.717	17.175	15.134	3.0335E-04	3.2034E-04	0.448
26	116	314.6	566.3	1.114	0.981	17.193	15.149	1.7315E-04	1.8284E-04	0.462
27	117	313.8	564.8	0.716	0.631	17.210	15.164	1.1118E-04	1.1739E-04	0.475
28	118	313.2	563.7	0.561	0.495	17.223	15.176	8.7118E-05	9.1981E-05	0.422
29	119	312.6	562.6	0.356	0.314	17.235	15.187	5.5188E-05	5.8267E-05	0.388
30	120	311.6	561.0	0.046	0.040	17.255	15.204	7.0541E-06	7.4471E-06	0.924
31	203	319.5	575.0	5.523	4.867	17.090	15.058	8.6422E-04	9.1289E-04	0.369
32	205	320.1	576.3	5.530	4.873	17.076	15.046	8.6605E-04	9.1486E-04	0.368
33	207	319.9	575.8	5.524	4.867	17.080	15.050	8.6479E-04	9.1352E-04	0.400
34	208	319.3	574.7	6.642	5.853	17.093	15.062	1.0391E-03	1.0976E-03	0.388
35	210	318.3	572.9	7.463	6.576	17.115	15.081	1.1659E-03	1.2314E-03	0.191
36	211	317.8	572.1	7.351	6.477	17.125	15.089	1.1477E-03	1.2122E-03	0.202
37	212	316.9	570.4	6.786	5.980	17.144	15.106	1.0582E-03	1.1176E-03	0.365
38	213	338.7	609.6	-0.000	-0.000	16.685	14.702	-1.9752E-17	-2.0896E-17	*******
39	214	338.7	609.7	0.000	0.000	16.684	14.701	4.1663E-08	4.4075E-08	1.590
40	215	314.0	565.2	5.057	4.455	17.205	15.160	7.8549E-04	8.2939E-04	0.352
41	216	309.6	557.4	4.368	3.849	17.297	15.241	6.7473E-04	7.1221E-04	0.375
42	217	312.3	562.1	3.554	3.132	17.242	15.192	5.5084E-04	5.8155E-04	0.527
43	218	309.2	556.5	2.753	2.426	17.307	15.250	4.2497E-04	4.4856E-04	0.373
44	219	308.8	555.8	1.783	1.571	17.316	15.258	2.7501E-04	2.9027E-04	0.373
45	220	308.5	555.3	0.385	0.339	17.322	15.263	5.9310E-05	6.2599E-05	0.838
46	406	317.0	570.7	4.310	3.797	17.141	15.104	6.7214E-04	7.0987E-04	0.345
47	407	316.9	570.5	4.019	3.541	17.144	15.106	6.2666E-04	6.6183E-04	0.362
48	408	316.3	569.4	3.760	3.313	17.156	15.117	5.8584E-04	6.1869E-04	0.364
49	409	315.9	568.5	3.656	3.222	17.166	15.126	5.6937E-04	6.0127E-04	0.289
50	410	315.4	567.8	3.399	2.995	17.175	15.134	5.2896E-04	5.5858E-04	0.268
51	411	315.0	567.0	3.148	2.774	17.185	15.142	4.8959E-04	5.1699E-04	0.293
52	412	313.7	564.7	2.559	2.255	17.211	15.166	3.9738E-04	4.1958E-04	0.385
53	413	311.9	561.4	2.137	1.883	17.249	15.199	3.3107E-04	3.4952E-04	0.401
54	414	311.8	561.2	1.708	1.505	17.253	15.202	2.6462E-04	2.7936E-04	0.360
55	415	311.1	560.0	1.512	1.333	17.266	15.214	2.3404E-04	2.4706E-04	0.352
56	416	310.3	558.5	1.304	1.149	17.284	15.230	2.0151E-04	2.1271E-04	0.363
57	417	309.6	557.3	1.094	0.964	17.298	15.242	1.6904E-04	1.7843E-04	0.373
58	418	309.3	556.8	0.822	0.724	17.304	15.248	1.2691E-04	1.3396E-04	0.362
59	419	309.0	556.2	0.494	0.435	17.311	15.254	7.6234E-05	8.0465E-05	0.404
60	420	308.7	555.6	0.081	0.071	17.318	15.260	1.2454E-05	1.3145E-05	1.259
61	506	316.9	570.4	4.384	3.863	17.144	15.106	6.8363E-04	7.2200E-04	0.335
62	507	316.3	569.3	3.718	3.276	17.157	15.117	5.7925E-04	6.1173E-04	0.318
63	508	315.6	568.1	2.945	2.595	17.171	15.130	4.5846E-04	4.8415E-04	0.324
64	509	314.4	566.0	2.338	2.060	17.196	15.152	3.6331E-04	3.8363E-04	0.291
65	510	313.9	565.1	2.033	1.791	17.207	15.161	3.1576E-04	3.3340E-04	0.295
66	511	313.5	564.3	1.840	1.622	17.216	15.170	2.8569E-04	3.0165E-04	0.301
67	512	313.3	564.0	1.336	1.177	17.220	15.173	2.0729E-04	2.1887E-04	0.397
68	513	312.8	563.0	0.979	0.863	17.231	15.183	1.5184E-04	1.6031E-04	0.418
69	514	312.1	561.8	0.616	0.543	17.246	15.196	9.5455E-05	1.0078E-04	0.370
70	515	311.1	560.0	0.498	0.439	17.266	15.214	7.7110E-05	8.1402E-05	0.360
71	516	311.0	559.8	0.482	0.425	17.269	15.217	7.4550E-05	7.8699E-05	0.442
72	517	310.5	558.9	0.375	0.331	17.280	15.226	5.8053E-05	6.1282E-05	0.346
73	518	309.9	557.8	0.299	0.263	17.292	15.236	4.6136E-05	4.8700E-05	0.373
74	519	309.3	556.7	0.158	0.139	17.305	15.248	2.4330E-05	2.5681E-05	0.408
75	520	308.5	555.3	0.022	0.019	17.321	15.262	3.3635E-06	3.5500E-06	1.991

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3762E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.527	16.083	16.151
PT2/PT1	5.442E-02	5.295E-02	5.318E-02
TEMP(DEG R)	2025.3	2079.7	2145.6
TT2/TT1	1.0014	1.0283	1.0609

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 38 FRAME 26 TO 51 CONSTANT SET 602

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.	0.0	0	0	1	5.10	0.2031E 07	303.11	2005.62	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.291	2004.574	0.277	0.350	769.220	-0.286	17.6074
0.070	303.108	2004.576	0.280	0.358	767.403	-0.312	17.6115
0.140	303.291	2004.967	0.277	0.450	771.035	-0.299	17.6115
0.210	303.291	2005.359	0.283	1.162	780.075	-0.299	17.6115
0.280	303.474	2004.836	0.328	1.692	829.707	-0.286	17.5994
0.350	303.291	2004.707	1.125	7.187	1301.559	-0.286	17.6034
0.420	303.291	2004.707	4.626	9.975	1774.041	-0.325	17.6034
0.490	303.108	2004.837	9.559	12.886	1928.582	-0.325	17.6034
0.560	303.474	2005.620	12.869	14.969	1929.247	-0.299	17.5994
0.630	303.474	2004.705	14.713	15.836	1942.517	-0.286	17.5953
0.700	303.474	2004.838	15.824	15.842	1985.397	-0.312	17.6034
0.770	303.291	2004.317	16.314	15.469	1997.860	-0.325	34.9122
0.840	303.108	2004.575	16.338	15.113	2014.861	-0.299	34.9203
0.910	303.108	2005.620	16.157	15.035	2027.899	-0.312	34.9163
0.980	303.657	2005.228	16.078	15.174	2037.005	-0.299	34.8840
1.050	303.291	2004.577	16.009	15.388	2026.597	-0.299	34.9122
1.120	303.474	2004.709	16.001	15.583	2046.742	-0.325	34.9243
1.190	303.291	2004.706	16.023	15.728	2063.573	-0.312	34.9203
1.260	303.474	2005.620	16.036	15.786	2053.870	-0.312	34.9284
1.330	303.474	2004.965	16.049	15.825	2053.870	-0.299	34.9163
1.400	303.474	2004.056	16.049	15.869	2047.390	-0.299	34.9243
1.470	303.291	2004.054	16.052	15.914	2062.280	-0.325	34.9082
1.540	303.291	2004.574	16.070	15.978	2060.341	-0.312	34.9243
1.610	303.474	2005.488	16.065	16.022	2064.869	-0.312	34.9284
1.680	303.474	2004.966	16.054	16.036	2073.257	-0.299	34.9082
1.750	303.474	2003.658	16.052	16.061	2077.770	-0.299	34.9243

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	162
5.10	6.6624E 06	2.0307E 00	0.303	20.62	1114.2	0.11764E 07	0.3048	1.000	RUN NO.	38
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.0307E 06	2.0307E 06	1.000	303.11	2005.6	505.89	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.271	0.3002	0.3002	0.3436	0.3629	39	214	0.289	0.0000	0.0000	0.0000	0.0000
2	2	0.289	0.0000	0.0000	0.0000	0.0000	40	215	0.268	0.0945	0.0945	0.1081	0.1142
3	3	0.272	0.2941	0.2941	0.3367	0.3557	41	216	0.265	0.0613	0.0613	0.0701	0.0740
4	4	0.272	0.3025	0.3025	0.3463	0.3658	42	217	0.265	0.0398	0.0398	0.0455	0.0481
5	5	0.272	0.3040	0.3040	0.3480	0.3676	43	218	0.264	0.0231	0.0231	0.0264	0.0278
6	6	0.272	0.3117	0.3117	0.3567	0.3768	44	219	0.264	0.0103	0.0103	0.0117	0.0124
7	7	0.272	0.3135	0.3135	0.3588	0.3791	45	220	0.264	0.0010	0.0010	0.0012	0.0012
8	8	0.272	0.3078	0.3078	0.3523	0.3722	46	406	0.271	0.2707	0.2707	0.3098	0.3273
9	9	0.271	0.2944	0.2944	0.3370	0.3560	47	407	0.271	0.2739	0.2739	0.3134	0.3311
10	10	0.271	0.2751	0.2751	0.3149	0.3326	48	408	0.270	0.2540	0.2540	0.2907	0.3070
11	11	0.271	0.2468	0.2468	0.2824	0.2984	49	409	0.270	0.2300	0.2300	0.2632	0.2780
12	12	0.271	0.2166	0.2166	0.2479	0.2619	50	410	0.269	0.1593	0.1993	0.2280	0.2409
13	13	0.272	0.2023	0.2023	0.2316	0.2446	51	411	0.269	0.1723	0.1723	0.1971	0.2082
14	14	0.272	0.1628	0.1628	0.1864	0.1969	52	412	0.268	0.1098	0.1098	0.1256	0.1326
15	15	0.272	0.0958	0.0958	0.1096	0.1158	53	413	0.267	0.0643	0.0643	0.0735	0.0776
16	103	0.275	0.3115	0.3115	0.3568	0.3771	54	414	0.266	0.0183	0.0183	0.0209	0.0221
17	105	0.276	0.3088	0.3088	0.3538	0.3739	55	415	0.266	0.0046	0.0046	0.0053	0.0056
18	107	0.275	0.3217	0.3217	0.3685	0.3894	56	416	0.265	0.0005	0.0005	0.0005	0.0005
19	108	0.275	0.3602	0.3602	0.4126	0.4360	57	417	0.265	0.0000	0.0000	0.0001	0.0001
20	110	0.273	0.3528	0.3528	0.4040	0.4268	58	418	0.264	-0.0005	-0.0005	-0.0006	-0.0006
21	111	0.273	0.3232	0.3232	0.3700	0.3910	59	419	0.264	-0.0007	-0.0007	-0.0008	-0.0009
22	112	0.272	0.2645	0.2645	0.3028	0.3199	60	420	0.264	-0.0012	-0.0012	-0.0014	-0.0014
23	113	0.271	0.1885	0.1885	0.2157	0.2279	61	506	0.271	0.2711	0.2711	0.3102	0.3277
24	114	0.270	0.0834	0.0834	0.0955	0.1008	62	507	0.270	0.2712	0.2712	0.3103	0.3278
25	115	0.269	0.0277	0.0277	0.0316	0.0334	63	508	0.270	0.2843	0.2843	0.3252	0.3436
26	116	0.268	0.0088	0.0088	0.0101	0.0107	64	509	0.269	0.2727	0.2727	0.3119	0.3294
27	117	0.268	0.0034	0.0034	0.0039	0.0042	65	510	0.268	0.2554	0.2554	0.2922	0.3086
28	118	0.267	0.0019	0.0019	0.0021	0.0022	66	511	0.268	0.2430	0.2430	0.2780	0.2936
29	119	0.267	0.0009	0.0009	0.0010	0.0011	67	512	0.268	0.1992	0.1992	0.2278	0.2406
30	120	0.266	0.0000	0.0000	0.0000	0.0000	68	513	0.267	0.1495	0.1495	0.1710	0.1806
31	203	0.273	0.3090	0.3090	0.3537	0.3737	69	514	0.267	0.0698	0.0698	0.0798	0.0843
32	205	0.273	0.3093	0.3093	0.3540	0.3694	70	515	0.266	0.0327	0.0327	0.0374	0.0395
33	207	0.273	0.2850	0.2850	0.3263	0.3447	71	516	0.266	0.0197	0.0197	0.0225	0.0238
34	208	0.273	0.3067	0.3067	0.3511	0.3709	72	517	0.265	0.0167	0.0167	0.0191	0.0202
35	210	0.272	0.3090	0.3090	0.3536	0.3736	73	518	0.265	0.0166	0.0166	0.0190	0.0201
36	211	0.271	0.2958	0.2958	0.3385	0.3576	74	519	0.265	0.0146	0.0146	0.0167	0.0176
37	212	0.270	0.2597	0.2597	0.2971	0.3139	75	520	0.264	0.0023	0.0023	0.0026	0.0027
38	213	0.269	-0.0000	-0.0000	-0.0000	-0.0000							

C-3

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	2.0307E 06	2.0307E 06	0.305	20.62	1114.2	0.11764E 07	0.3048	1.000	RUN NO. 38
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0307E 06	2.0307E 06	1.000	303.11	2005.6	505.89	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	1	317.4	571.4	5.075	4.472	16.904	14.895	7.9884E-04	8.4389E-04	0.418
2	2	338.7	609.6	0.000	0.000	16.457	14.501	1.9310E-16	2.0433E-16	*******
3	3	318.1	572.6	4.968	4.378	16.890	14.883	7.8276E-04	8.2694E-04	0.407
4	4	318.2	572.7	5.109	4.502	16.889	14.881	8.0508E-04	8.5052E-04	0.397
5	5	318.3	572.9	5.134	4.524	16.887	14.880	8.0911E-04	8.5478E-04	0.385
6	6	318.2	572.7	5.264	4.638	16.889	14.881	8.2936E-04	8.7617E-04	0.386
7	7	318.4	573.2	5.293	4.664	16.883	14.877	8.3426E-04	8.8136E-04	0.395
8	8	318.9	574.0	5.193	4.575	16.873	14.868	8.1903E-04	8.6531E-04	0.397
9	9	317.8	572.0	4.975	4.384	16.897	14.888	7.8351E-04	8.2771E-04	0.363
10	10	317.1	570.8	4.652	4.099	16.911	14.901	7.3204E-04	7.7329E-04	0.353
11	11	317.4	571.3	4.172	3.676	16.905	14.896	6.5671E-04	6.9374E-04	0.333
12	12	317.7	571.9	3.660	3.225	16.898	14.889	5.7640E-04	6.0891E-04	0.308
13	13	318.2	572.7	3.417	3.011	16.889	14.881	5.3838E-04	5.6877E-04	0.297
14	14	318.9	574.0	2.747	2.420	16.874	14.868	4.3325E-04	4.5773E-04	0.226
15	15	318.9	574.1	1.616	1.424	16.872	14.867	2.5487E-04	2.6927E-04	0.131
16	103	322.3	580.1	5.234	4.612	16.802	14.805	8.2939E-04	8.7648E-04	0.381
17	105	323.2	581.8	5.183	4.567	16.782	14.787	8.2220E-04	8.6894E-04	0.385
18	107	322.6	580.7	5.403	4.761	16.795	14.799	8.5646E-04	9.0511E-04	0.407
19	108	321.7	579.1	6.057	5.337	16.814	14.816	9.5896E-04	1.0134E-03	0.358
20	110	320.3	576.5	5.943	5.237	16.844	14.842	9.3509E-04	9.9226E-04	0.166
21	111	319.8	575.6	5.448	4.800	16.854	14.851	8.6025E-04	9.0892E-04	0.202
22	112	318.8	573.8	4.464	3.933	16.876	14.870	7.0391E-04	7.4368E-04	0.385
23	113	317.9	572.3	3.184	2.805	16.894	14.886	5.0149E-04	5.2979E-04	0.467
24	114	316.5	569.7	1.412	1.244	16.924	14.912	2.2200E-04	2.3450E-04	0.533
25	115	315.2	567.4	0.469	0.413	16.951	14.936	7.3595E-05	7.7732E-05	0.577
26	116	314.4	566.0	0.150	0.132	16.967	14.951	2.3521E-05	2.4841E-05	0.559
27	117	313.7	564.6	0.058	0.052	16.984	14.965	9.1567E-06	9.6703E-06	0.465
28	118	313.2	563.7	0.032	0.028	16.994	14.974	4.9496E-06	5.2270E-06	0.421
29	119	312.6	562.7	0.015	0.013	17.005	14.984	2.3472E-06	2.4786E-06	0.423
30	120	311.9	561.4	0.001	0.001	17.021	14.998	8.8991E-08	9.3970E-08	7.259
31	203	319.6	575.3	5.209	4.590	16.859	14.855	8.2234E-04	8.6885E-04	0.370
32	205	320.1	576.2	5.144	4.533	16.848	14.845	8.1267E-04	8.5867E-04	0.369
33	207	319.8	575.7	4.803	4.232	16.854	14.850	7.5851E-04	8.0142E-04	0.392
34	208	319.2	574.6	5.173	4.558	16.867	14.862	8.1625E-04	8.6239E-04	0.378
35	210	318.1	572.6	5.219	4.598	16.890	14.882	8.2223E-04	8.6863E-04	0.219
36	211	317.7	571.9	4.999	4.404	16.899	14.890	7.8713E-04	8.3153E-04	0.258
37	212	316.8	570.3	4.393	3.871	16.917	14.907	6.9091E-04	7.2983E-04	0.387
38	213	338.7	609.7	-0.000	-0.000	16.457	14.501	-6.0123E-14	-6.3619E-14	*******
39	214	338.7	609.7	0.000	0.000	16.457	14.501	2.3486E-16	2.4851E-16	*******
40	215	314.1	565.3	1.605	1.414	16.976	14.958	2.5143E-04	2.6554E-04	0.443
41	216	309.9	557.8	1.047	0.922	17.063	15.035	1.6309E-04	1.7219E-04	0.461
42	217	310.0	557.9	0.680	0.599	17.062	15.034	1.0593E-04	1.1184E-04	0.506
43	218	309.3	556.8	0.394	0.347	17.075	15.046	6.1311E-05	6.4729E-05	0.544
44	219	308.9	556.0	0.175	0.154	17.084	15.054	2.7271E-05	2.8790E-05	0.652
45	220	308.7	555.6	0.018	0.016	17.089	15.057	2.7405E-06	2.8931E-06	2.113
46	406	317.1	570.7	4.579	4.034	16.912	14.902	7.2039E-04	7.6099E-04	0.358
47	407	317.0	570.6	4.632	4.081	16.914	14.903	7.2871E-04	7.6977E-04	0.359
48	408	316.4	569.5	4.300	3.789	16.926	14.915	6.7591E-04	7.1397E-04	0.296
49	409	315.9	568.7	3.896	3.433	16.936	14.923	6.1204E-04	6.4647E-04	0.190
50	410	315.5	567.8	3.378	2.976	16.946	14.932	5.3030E-04	5.6011E-04	0.175
51	411	315.0	567.0	2.922	2.574	16.955	14.940	4.5844E-04	4.8420E-04	0.233
52	412	313.8	564.9	1.864	1.643	16.980	14.962	2.9209E-04	3.0847E-04	C.431
53	413	312.2	561.9	1.094	0.964	17.015	14.993	1.7093E-04	1.8049E-04	C.501
54	414	312.1	561.7	0.311	0.274	17.017	14.995	4.8587E-05	5.1306E-05	0.501
55	415	311.5	560.7	0.079	0.070	17.030	15.006	1.2364E-05	1.3055E-05	0.375
56	416	310.6	559.1	0.008	0.007	17.048	15.021	1.2044E-06	1.2717E-06	C.097
57	417	310.0	557.9	0.001	0.001	17.062	15.034	1.2361E-07	1.3051E-07	19.752
58	418	309.7	557.5	-0.009	-0.008	17.067	15.039	-1.3269E-06	-1.4009E-06	-0.637
59	419	309.4	557.0	-0.012	-0.011	17.073	15.043	-1.9438E-06	-2.0522E-06	-0.990
60	420	309.3	556.7	-0.020	-0.018	17.077	15.047	-3.1777E-06	-3.3548E-06	-0.318
61	506	317.4	571.3	4.582	4.038	16.905	14.896	7.2130E-04	7.6197E-04	0.354
62	507	316.8	570.2	4.588	4.043	16.918	14.907	7.2155E-04	7.6220E-04	0.369
63	508	316.0	568.8	4.814	4.242	16.934	14.922	7.5634E-04	7.9890E-04	0.377
64	509	314.9	566.8	4.624	4.074	16.958	14.943	7.2541E-04	7.6616E-04	0.273
65	510	314.4	565.9	4.334	3.819	16.968	14.951	6.7950E-04	7.1765E-04	0.242
66	511	313.9	565.1	4.126	3.636	16.978	14.960	6.4652E-04	6.8279E-04	0.254
67	512	313.7	564.7	3.382	2.980	16.982	14.964	5.2980E-04	5.5952E-04	0.426
68	513	313.2	563.8	2.541	2.239	16.993	14.973	3.9772E-04	4.2001E-04	0.511
69	514	312.5	562.5	1.187	1.046	17.008	14.986	1.8560E-04	1.9599E-04	0.529
70	515	311.5	560.7	0.557	0.491	17.030	15.005	8.6941E-05	9.1802E-05	C.539
71	516	311.5	560.7	0.336	0.296	17.029	15.005	5.2433E-05	5.5365E-05	C.582
72	517	310.9	559.6	0.285	0.251	17.042	15.016	4.4427E-05	4.6910E-05	0.579
73	518	310.4	558.8	0.283	0.250	17.052	15.025	4.4201E-05	4.6669E-05	0.506
74	519	309.9	557.7	0.249	0.219	17.064	15.036	3.8802E-05	4.0967E-05	C.530
75	520	309.1	556.4	0.038	0.034	17.080	15.049	5.9848E-06	6.3104E-06	1.726

FREE-STREAM DENSITY-VELOCITY PRODUCT = 6.3990E-01 (SLUGS/FT2-SEC)

151

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.522	16.057	16.061
PT2/PT1	5.451E-02	5.296E-02	5.299E-02
TEMP(DEG R)	1974.9	2077.8	2124.6
TT2/TT1	0.9847	1.0360	1.0593

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 162 RUN NO. 39 FRAME 25 TO 52 CONSTANT SET 602

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2013E 07	303.11	2015.84	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.291	2015.700	0.243	0.084	801.545	-0.292	17.6056
0.070	303.291	2015.961	0.238	0.093	799.768	-0.292	17.6097
0.140	303.291	2015.831	0.238	0.198	801.545	-0.305	17.6097
0.210	303.291	2015.962	0.246	1.108	812.166	-0.305	17.6097
0.280	303.291	2017.139	0.315	3.904	901.420	-0.318	17.6056
0.350	303.474	2016.488	1.613	7.299	1445.989	-0.305	17.6016
0.420	303.474	2015.966	5.756	10.344	1846.161	-0.305	17.6097
0.490	303.108	2015.578	10.387	13.346	1945.829	-0.318	17.6056
0.560	302.559	2016.231	13.246	15.153	1939.866	-0.318	17.6056
0.630	303.291	2017.012	15.047	15.723	1982.112	-0.318	17.6056
0.700	303.474	2016.231	16.009	15.459	2043.498	-0.305	23.3989
0.770	303.474	2015.972	16.311	14.959	2040.252	-0.305	34.9168
0.840	303.291	2016.104	16.218	14.634	2040.902	-0.331	34.9087
0.910	303.108	2015.841	16.070	14.625	2032.454	-0.305	34.9168
0.980	303.291	2016.883	15.945	14.809	2060.341	-0.318	34.9047
1.050	303.474	2016.753	15.903	15.003	2079.703	-0.305	34.8926
1.120	303.291	2015.972	15.911	15.145	2086.140	-0.305	34.8926
1.190	303.291	2015.841	15.929	15.265	2076.481	-0.331	34.9168
1.260	303.291	2015.972	15.929	15.337	2079.703	-0.331	34.9289
1.330	303.291	2016.621	15.919	15.431	2071.322	-0.331	34.9249
1.400	303.474	2016.622	15.903	15.532	2066.803	-0.305	34.9168
1.470	303.291	2015.711	15.887	15.590	2069.386	-0.305	34.9168
1.540	303.108	2015.842	15.871	15.626	2069.386	-0.331	34.9168
1.610	303.108	2016.232	15.850	15.637	2059.047	-0.318	34.9208
1.680	303.291	2016.751	15.845	15.654	2073.257	-0.318	34.9007
1.750	303.474	2016.621	15.845	15.668	2088.069	-0.305	34.9128
1.820	303.657	2016.100	15.850	15.710	2092.568	-0.305	34.9208
1.890	303.291	2015.581	15.839	15.776	2066.803	-0.331	34.9168

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.6055E 06	2.0134E 06	0.305	20.62	1119.9	0.11830E 07	0.3048	1.000	RUN NO. 39
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0134E 06	2.0134E 06	1.000	303.11	2015.8	508.71	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.271	0.2888	0.2888	0.3305	0.3491	39	214	0.288	0.0000	0.0000	0.0000	0.0000
2	2	0.288	0.0000	0.0000	0.0000	0.0000	40	215	0.267	0.1012	0.1012	0.1157	0.1222
3	3	0.272	0.2889	0.2889	0.3307	0.3494	41	216	0.263	0.0651	0.0651	0.0744	0.0785
4	4	0.272	0.2972	0.2972	0.3402	0.3594	42	217	0.263	0.0392	0.0392	0.0448	0.0473
5	5	0.272	0.3002	0.3002	0.3436	0.3630	43	218	0.263	0.0210	0.0210	0.0239	0.0253
6	6	0.272	0.3113	0.3113	0.3564	0.3765	44	219	0.262	0.0085	0.0085	0.0097	0.0103
7	7	0.272	0.3261	0.3261	0.3732	0.3943	45	220	0.262	0.0002	0.0002	0.0002	0.0002
8	8	0.273	0.3245	0.3245	0.3714	0.3924	46	406	0.270	0.2711	0.2711	0.3102	0.3276
9	9	0.271	0.3033	0.3033	0.3471	0.3667	47	407	0.270	0.2680	0.2680	0.3066	0.3239
10	10	0.270	0.2785	0.2785	0.3186	0.3366	48	408	0.269	0.2407	0.2407	0.2754	0.2909
11	11	0.271	0.2507	0.2507	0.2869	0.3030	49	409	0.269	0.2155	0.2155	0.2466	0.2604
12	12	0.271	0.2123	0.2123	0.2429	0.2566	50	410	0.269	0.1845	0.1845	0.2111	0.2229
13	13	0.271	0.1823	0.1823	0.2086	0.2204	51	411	0.268	0.1584	0.1584	0.1812	0.1914
14	14	0.271	0.1509	0.1509	0.1727	0.1824	52	412	0.267	0.1021	0.1021	0.1167	0.1233
15	15	0.271	0.1032	0.1032	0.1181	0.1248	53	413	0.266	0.0601	0.0601	0.0688	0.0726
16	103	0.275	0.3169	0.3169	0.3630	0.3836	54	414	0.266	0.0168	0.0168	0.0192	0.0203
17	105	0.276	0.3110	0.3110	0.3563	0.3766	55	415	0.265	0.0041	0.0041	0.0047	0.0049
18	107	0.276	0.3122	0.3122	0.3577	0.3780	56	416	0.264	0.0008	0.0008	0.0010	0.0010
19	108	0.275	0.3340	0.3340	0.3825	0.4042	57	417	0.263	0.0002	0.0002	0.0002	0.0002
20	110	0.273	0.3246	0.3246	0.3717	0.3927	58	418	0.263	-0.0001	-0.0001	-0.0001	-0.0001
21	111	0.273	0.2988	0.2988	0.3421	0.3615	59	419	0.263	-0.0007	-0.0007	-0.0008	-0.0008
22	112	0.272	0.2452	0.2452	0.2807	0.2966	60	420	0.262	-0.0004	-0.0004	-0.0005	-0.0005
23	113	0.271	0.1769	0.1769	0.2025	0.2139	61	506	0.270	0.2708	0.2708	0.3098	0.3273
24	114	0.270	0.0774	0.0774	0.0885	0.0935	62	507	0.269	0.2633	0.2633	0.3012	0.3181
25	115	0.269	0.0231	0.0231	0.0264	0.0279	63	508	0.269	0.2552	0.2552	0.2919	0.3083
26	116	0.268	0.0062	0.0062	0.0071	0.0075	64	509	0.268	0.2273	0.2273	0.2599	0.2745
27	117	0.267	0.0020	0.0020	0.0023	0.0024	65	510	0.268	0.2099	0.2099	0.2401	0.2535
28	118	0.266	0.0010	0.0010	0.0012	0.0013	66	511	0.267	0.1979	0.1979	0.2263	0.2390
29	119	0.266	0.0006	0.0006	0.0007	0.0008	67	512	0.267	0.1607	0.1607	0.1838	0.1941
30	120	0.265	0.0000	0.0000	0.0001	0.0001	68	513	0.267	0.1240	0.1240	0.1418	0.1497
31	203	0.272	0.3098	0.3098	0.3547	0.3747	69	514	0.266	0.0603	0.0603	0.0689	0.0728
32	205	0.273	0.3087	0.3087	0.3534	0.3734	70	515	0.265	0.0275	0.0275	0.0315	0.0332
33	207	0.273	0.2937	0.2937	0.3362	0.3552	71	516	0.265	0.0159	0.0159	0.0182	0.0192
34	208	0.272	0.3000	0.3000	0.3434	0.3628	72	517	0.264	0.0100	0.0100	0.0114	0.0120
35	210	0.271	0.2989	0.2989	0.3420	0.3613	73	518	0.264	0.0118	0.0118	0.0135	0.0142
36	211	0.271	0.2890	0.2890	0.3308	0.3494	74	519	0.263	0.0094	0.0094	0.0108	0.0114
37	212	0.270	0.2598	0.2598	0.2973	0.3141	75	520	0.262	0.0017	0.0017	0.0020	0.0021
38	213	0.288	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	R&L	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	FS(METER)	HAW/HT	TEST NO.	182
5.10	6.6055E 06	2.0134E 06	0.305	20.62	1119.9	0.11830E 07	0.3048	1.000	RUN NO.	39
MACH	RE/FT	R&L	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.0134E 06	2.0134E 06	1.000	303.11	2015.8	508.71	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(C.874)	TIME(SEC)
1	1	318.8	573.8	4.911	4.327	17.005	14.983	7.7129E-04	8.1476E-04	0.362
2	2	338.7	609.6	0.000	0.000	16.586	14.615	1.1217E-16	1.1867E-16	*******
3	3	320.6	575.9	4.905	4.323	16.980	14.962	7.7174E-04	8.1530E-04	0.368
4	4	320.3	576.5	5.044	4.444	16.973	14.956	7.9372E-04	8.3855E-04	0.359
5	5	320.5	576.8	5.094	4.488	16.969	14.952	8.0175E-04	8.4704E-04	0.342
6	6	320.2	576.4	5.249	4.657	16.974	14.957	8.3157E-04	8.7852E-04	0.347
7	7	320.4	576.7	5.233	4.676	16.971	14.954	8.7087E-04	9.2006E-04	0.368
8	8	321.1	578.1	5.501	4.847	16.955	14.940	8.6667E-04	9.1568E-04	0.377
9	9	319.3	574.8	5.154	4.542	16.993	14.973	8.1007E-04	8.5575E-04	0.331
10	10	318.3	573.0	4.733	4.175	17.014	14.992	7.4363E-04	7.8550E-04	0.307
11	11	318.7	573.7	4.263	3.756	17.006	14.984	6.6949E-04	7.0721E-04	0.283
12	12	318.9	574.0	3.609	3.180	17.003	14.982	5.6092E-04	5.9887E-04	0.263
13	13	319.1	574.3	3.099	2.731	16.999	14.978	4.8687E-04	5.1432E-04	0.234
14	14	319.6	575.3	2.563	2.258	16.987	14.968	4.0294E-04	4.2568E-04	0.191
15	15	319.6	575.2	1.754	1.545	16.988	14.969	2.7567E-04	2.9123E-04	0.141
16	103	324.1	583.5	5.353	4.717	16.892	14.884	8.4670E-04	8.9477E-04	0.355
17	105	325.4	585.7	5.245	4.622	16.866	14.861	8.3106E-04	8.7833E-04	0.354
18	107	324.8	584.7	5.270	4.643	16.878	14.872	8.3428E-04	8.8169E-04	0.364
19	108	323.4	582.1	5.648	4.976	16.908	14.898	8.9240E-04	9.4301E-04	0.334
20	110	321.9	579.5	5.499	4.845	16.939	14.925	8.6720E-04	9.1629E-04	0.188
21	111	321.6	579.3	5.062	4.460	16.940	14.927	7.9817E-04	8.4334E-04	0.202
22	112	320.5	576.9	4.161	3.667	16.969	14.952	6.5500E-04	6.9200E-04	0.337
23	113	319.6	575.3	3.005	2.648	16.988	14.969	4.7247E-04	4.9913E-04	0.426
24	114	317.7	571.9	1.317	1.161	17.027	15.003	2.0660E-04	2.1822E-04	0.544
25	115	316.6	569.8	0.393	0.347	17.051	15.024	6.1614E-05	6.5076E-05	0.637
26	116	315.4	567.7	0.106	0.093	17.076	15.046	1.6579E-05	1.7509E-05	0.631
27	117	314.5	566.1	0.034	0.030	17.096	15.063	5.3556E-06	5.6556E-06	0.560
28	118	313.8	564.9	0.018	0.016	17.109	15.075	2.7738E-06	2.9290E-06	0.460
29	119	313.0	563.4	0.011	0.010	17.127	15.091	1.7166E-06	1.8125E-06	0.701
30	120	312.1	561.8	0.001	0.001	17.145	15.107	1.1844E-07	1.2505E-07	8.845
31	203	320.9	577.6	5.255	4.630	16.960	14.944	8.2756E-04	8.7433E-04	0.338
32	205	321.6	578.8	5.232	4.610	16.946	14.932	8.2466E-04	8.7132E-04	0.336
33	207	321.2	578.2	4.979	4.387	16.953	14.938	7.8449E-04	8.2885E-04	0.345
34	208	320.7	577.3	5.089	4.484	16.964	14.948	8.0126E-04	8.4653E-04	0.346
35	210	319.5	575.2	5.077	4.474	16.989	14.970	7.9818E-04	8.4321E-04	0.221
36	211	319.1	574.4	4.913	4.329	16.998	14.978	7.7189E-04	8.1541E-04	0.232
37	212	318.0	572.5	4.423	3.897	17.020	14.997	6.9389E-04	7.3295E-04	0.326
38	213	338.7	609.7	-0.000	-0.000	16.586	14.614	-4.9774E-14	-5.2660E-14	*******
39	214	338.7	609.7	0.000	0.000	16.585	14.614	2.8639E-16	3.0299E-16	*******
40	215	315.0	567.0	1.729	1.523	17.084	15.054	2.7610E-04	2.8524E-04	0.406
41	216	310.3	558.5	1.118	0.985	17.184	15.141	1.7363E-04	1.8330E-04	0.462
42	217	310.3	558.5	0.674	0.594	17.185	15.142	1.0463E-04	1.1045E-04	0.504
43	218	309.5	557.0	0.361	0.318	17.201	15.157	5.5930E-05	5.9041E-05	0.569
44	219	308.9	556.0	0.147	0.129	17.214	15.168	2.2748E-05	2.4012E-05	0.818
45	220	308.6	555.8	0.003	0.003	17.216	15.170	5.2715E-07	5.5644E-07	14.708
46	406	317.7	571.9	4.616	4.067	17.027	15.003	7.2393E-04	7.6466E-04	0.315
47	407	317.7	571.9	4.563	4.020	17.027	15.003	7.1559E-04	7.5586E-04	0.307
48	408	317.1	570.7	4.103	3.615	17.041	15.015	6.4283E-04	6.7897E-04	0.258
49	409	316.7	570.1	3.675	3.238	17.048	15.022	5.7552E-04	6.0785E-04	0.198
50	410	316.4	569.5	3.147	2.773	17.055	15.028	4.9264E-04	5.2030E-04	0.196
51	411	315.8	568.4	2.704	2.383	17.068	15.039	4.2295E-04	4.4669E-04	0.246
52	412	314.6	566.2	1.745	1.538	17.094	15.062	2.7254E-04	2.8781E-04	0.432
53	413	313.0	563.3	1.030	0.908	17.127	15.092	1.6054E-04	1.6951E-04	0.525
54	414	312.9	563.3	0.287	0.253	17.128	15.092	4.4799E-05	4.7302E-05	0.573
55	415	312.1	561.7	0.070	0.062	17.147	15.109	1.0869E-05	1.1476E-05	0.632
56	416	310.9	559.7	0.014	0.013	17.170	15.129	2.2451E-06	2.3703E-06	2.323
57	417	310.2	558.4	0.003	0.003	17.185	15.142	5.2274E-07	5.5185E-07	9.729
58	418	309.8	557.6	-0.001	-0.001	17.194	15.150	-1.8456E-07	-1.9483E-07	-24.713
59	419	309.6	557.3	-0.011	-0.010	17.198	15.154	-1.7825E-06	-1.8817E-06	-1.832
60	420	309.0	556.3	-0.007	-0.006	17.210	15.165	-1.0751E-06	-1.1348E-06	-5.403
61	506	318.2	572.7	4.608	4.060	17.018	14.995	7.2309E-04	7.6381E-04	0.316
62	507	317.4	571.3	4.484	3.951	17.034	15.009	7.0295E-04	7.4248E-04	0.300
63	508	316.8	570.3	4.350	3.833	17.046	15.020	6.8137E-04	7.1966E-04	0.287
64	509	315.3	567.5	3.882	3.420	17.079	15.049	6.0673E-04	6.4075E-04	0.214
65	510	315.3	567.5	3.585	3.159	17.079	15.049	5.6036E-04	5.9178E-04	0.206
66	511	314.7	566.5	3.382	2.980	17.091	15.059	5.2830E-04	5.5790E-04	0.214
67	512	314.7	566.5	2.747	2.420	17.090	15.059	4.2904E-04	4.5308E-04	0.342
68	513	314.0	565.2	2.121	1.869	17.105	15.072	3.3099E-04	3.4952E-04	0.427
69	514	313.1	563.6	1.032	0.909	17.124	15.088	1.6089E-04	1.6989E-04	0.487
70	515	312.4	562.3	0.472	0.416	17.140	15.103	7.3472E-05	7.7575E-05	0.512
71	516	312.3	562.2	0.273	0.241	17.141	15.103	4.2558E-05	4.4935E-05	0.592
72	517	311.2	560.2	0.171	0.151	17.165	15.124	2.6632E-05	2.8117E-05	0.415
73	518	310.9	559.6	0.202	0.178	17.172	15.131	3.1430E-05	3.3182E-05	0.512
74	519	310.0	557.9	0.162	0.143	17.191	15.147	2.5165E-05	2.6566E-05	0.406
75	520	309.1	556.4	0.030	0.026	17.209	15.164	4.5778E-06	4.8323E-06	1.922

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3785E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 40 FRAME 26 TO 52 CONSTANT SET 602

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2610E 07	303.97	2021.30	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.599	2020.389	0.279	0.333	789.059	-0.292	17.6097
0.070	303.416	2020.651	0.277	0.347	789.059	-0.305	17.6097
0.140	303.416	2021.041	0.277	0.458	791.743	-0.305	17.6097
0.210	303.599	2021.301	0.282	1.262	802.433	-0.292	17.6097
0.280	303.782	2020.649	0.335	3.842	884.610	-0.292	17.6016
0.350	303.782	2020.651	1.354	7.264	1406.905	-0.292	17.5976
0.420	303.599	2020.782	5.288	10.295	1796.600	-0.318	17.6018
0.490	303.599	2020.649	10.119	13.384	1929.247	-0.318	17.6016
0.560	303.782	2021.430	13.313	15.386	1962.355	-0.318	17.6056
0.630	303.782	2020.910	15.228	16.109	1988.680	-0.305	17.5976
0.700	303.782	2020.520	16.240	15.970	2040.252	-0.305	21.7852
0.770	303.782	2020.520	16.500	15.539	2045.444	-0.331	34.9087
0.840	303.599	2020.519	16.375	15.216	2047.390	-0.318	34.9208
0.910	303.965	2021.301	16.200	15.255	2071.967	-0.318	34.9087
0.980	303.965	2021.170	16.095	15.438	2089.355	-0.318	34.9007
1.050	303.965	2020.388	16.057	15.655	2086.140	-0.305	34.9168
1.120	303.965	2020.650	16.068	15.800	2082.922	-0.318	34.9007
1.190	303.965	2020.778	16.068	15.894	2103.478	-0.318	34.9087
1.260	303.965	2021.037	16.087	15.992	2086.140	-0.318	34.9087
1.330	303.965	2020.907	16.092	16.053	2064.865	-0.305	34.9087
1.400	303.965	2020.122	16.057	16.109	2073.257	-0.305	34.9208
1.470	303.965	2020.124	16.060	16.172	2093.853	-0.331	34.9168
1.540	303.965	2020.252	16.060	16.214	2102.196	-0.305	34.9249
1.610	303.965	2021.167	16.060	16.248	2097.064	-0.318	34.9289
1.680	304.697	2020.643	16.060	16.292	2079.703	-0.305	34.9168
1.750	304.514	2020.513	16.042	16.314	2057.106	-0.305	34.9249
1.820	304.514	2020.254	16.026	16.342	2075.836	-0.331	34.9208

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5940E 06	2.0099E 06	0.305	20.68	1122.9	0.11865E 07	0.3048	1.000	RUN NO. 40
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0099E 06	2.0099E 06	1.000	303.97	2021.3	510.22	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.273	0.2985	0.2985	0.3417	0.3611	39	214	0.287	0.0000	0.0000	0.0000	0.0000
2	2	0.287	0.0000	0.0000	0.0000	0.0000	40	215	0.270	0.3088	0.3088	0.3534	0.3733
3	3	0.274	0.2980	0.2980	0.3412	0.3606	41	216	0.266	0.2698	0.2698	0.3085	0.3257
4	4	0.274	0.3097	0.3097	0.3547	0.3748	42	217	0.267	0.2191	0.2191	0.2505	0.2645
5	5	0.274	0.3177	0.3177	0.3639	0.3845	43	218	0.266	0.1625	0.1625	0.1858	0.1962
6	6	0.274	0.3317	0.3317	0.3799	0.4014	44	219	0.265	0.1026	0.1026	0.1172	0.1238
7	7	0.275	0.3178	0.3178	0.3640	0.3846	45	220	0.265	0.0208	0.0208	0.0238	0.0251
8	8	0.275	0.3152	0.3152	0.3610	0.3815	46	406	0.273	0.2963	0.2963	0.3392	0.3583
9	9	0.273	0.3112	0.3112	0.3563	0.3765	47	407	0.273	0.2680	0.2680	0.3068	0.3242
10	10	0.272	0.2906	0.2906	0.3327	0.3515	48	408	0.272	0.2211	0.2211	0.2531	0.2674
11	11	0.272	0.2587	0.2587	0.2961	0.3129	49	409	0.272	0.2022	0.2022	0.2314	0.2445
12	12	0.272	0.2223	0.2223	0.2545	0.2689	50	410	0.272	0.0058	0.0058	0.0066	0.0070
13	13	0.273	0.1826	0.1826	0.2090	0.2209	51	411	0.271	0.1709	0.1709	0.1956	0.2067
14	14	0.273	0.1449	0.1449	0.1659	0.1753	52	412	0.270	0.1427	0.1427	0.1633	0.1725
15	15	0.273	0.0986	0.0986	0.1129	0.1193	53	413	0.269	0.1250	0.1250	0.1430	0.1510
16	103	0.277	0.3133	0.3133	0.3591	0.3795	54	414	0.269	0.1049	0.1049	0.1200	0.1268
17	105	0.278	0.3044	0.3044	0.3488	0.3688	55	415	0.268	0.0940	0.0940	0.1076	0.1136
18	107	0.278	0.3136	0.3136	0.3594	0.3799	56	416	0.267	0.0809	0.0809	0.0925	0.0976
19	108	0.277	0.3500	0.3500	0.4011	0.4240	57	417	0.267	0.0667	0.0667	0.0762	0.0805
20	110	0.276	0.3682	0.3682	0.4218	0.4458	58	418	0.266	0.0490	0.0490	0.0560	0.0592
21	111	0.276	0.3539	0.3539	0.4054	0.4284	59	419	0.266	0.0284	0.0284	0.0325	0.0343
22	112	0.275	0.3251	0.3251	0.3723	0.3934	60	420	0.266	0.0037	0.0037	0.0043	0.0045
23	113	0.274	0.2721	0.2721	0.3116	0.3292	61	506	0.273	0.2491	0.2491	0.2851	0.3012
24	114	0.273	0.1784	0.1784	0.2042	0.2157	62	507	0.272	0.2138	0.2138	0.2447	0.2585
25	115	0.272	0.0992	0.0992	0.1135	0.1199	63	508	0.271	0.1703	0.1703	0.1949	0.2059
26	116	0.271	0.0506	0.0506	0.0579	0.0612	64	509	0.270	0.1303	0.1303	0.1491	0.1575
27	117	0.270	0.0276	0.0276	0.0315	0.0333	65	510	0.270	0.1115	0.1115	0.1276	0.1348
28	118	0.269	0.0199	0.0199	0.0227	0.0240	66	511	0.270	0.1012	0.1012	0.1158	0.1223
29	119	0.269	0.0118	0.0118	0.0135	0.0143	67	512	0.270	0.0775	0.0775	0.0887	0.0937
30	120	0.268	0.0015	0.0015	0.0018	0.0019	68	513	0.269	0.0618	0.0618	0.0707	0.0747
31	203	0.275	0.3099	0.3099	0.3549	0.3750	69	514	0.269	0.0431	0.0431	0.0494	0.0521
32	205	0.275	0.3148	0.3148	0.3606	0.3811	70	515	0.268	0.0347	0.0347	0.0397	0.0420
33	207	0.275	0.3171	0.3171	0.3633	0.3839	71	516	0.268	0.0308	0.0308	0.0352	0.0371
34	208	0.275	0.3520	0.3520	0.4031	0.4260	72	517	0.268	0.0278	0.0278	0.0318	0.0335
35	210	0.274	0.3819	0.3819	0.4374	0.4621	73	518	0.267	0.0224	0.0224	0.0257	0.0271
36	211	0.274	0.3823	0.3823	0.4377	0.4625	74	519	0.266	0.0127	0.0127	0.0146	0.0154
37	212	0.273	0.3661	0.3661	0.4191	0.4428	75	520	0.266	0.0029	0.0029	0.0033	0.0035
38	213	0.287	-0.0000	-0.0000	-0.0000	-0.0000							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	RLL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5940E 06	2.0099E 06	0.305	20.68	1122.9	0.11865E 07	0.3048	1.000	RUN NO. 40
MACH	RE/FT	RLL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0099E 06	2.0099E 06	1.000	303.97	2021.3	510.22	1.0000	1.000	

CHAN.	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	322.9	581.3	5.077	4.473	17.010	14.988	7.9770E-04	8.4286E-04	0.367
2	2	338.7	609.6	0.000	0.000	16.678	14.696	1.3472E-16	1.4251E-16	*******
3	3	323.9	583.1	5.063	4.461	16.989	14.970	7.9653E-04	8.4166E-04	0.377
4	4	324.1	583.3	5.261	4.635	16.986	14.967	8.2783E-04	8.7477E-04	0.372
5	5	324.2	583.6	5.396	4.755	16.983	14.964	8.4935E-04	8.9751E-04	0.366
6	6	324.1	583.3	5.635	4.965	16.986	14.967	8.8668E-04	9.3696E-04	0.372
7	7	324.4	583.8	5.396	4.755	16.980	14.962	8.4953E-04	8.9772E-04	0.385
8	8	324.8	584.6	5.349	4.713	16.971	14.954	8.4255E-04	8.9037E-04	0.391
9	9	323.0	581.4	5.294	4.664	17.009	14.987	8.3183E-04	8.7892E-04	0.359
10	10	321.7	579.0	4.951	4.363	17.037	15.012	7.7670E-04	8.2059E-04	0.345
11	11	321.8	579.2	4.407	3.883	17.035	15.010	6.9136E-04	7.3043E-04	0.329
12	12	321.7	579.4	3.787	3.337	17.032	15.008	5.9422E-04	6.2781E-04	0.296
13	13	322.3	580.1	3.106	2.739	17.025	15.001	4.8798E-04	5.1557E-04	0.264
14	14	322.8	581.0	2.465	2.172	17.014	14.991	3.8724E-04	4.0916E-04	0.184
15	15	322.5	580.5	1.679	1.479	17.019	14.996	2.6366E-04	2.7857E-04	0.071
16	103	327.8	590.0	5.298	4.668	16.909	14.899	8.3788E-04	8.8563E-04	0.366
17	105	328.9	591.9	5.139	4.528	16.885	14.878	8.1396E-04	8.6042E-04	0.368
18	107	328.5	591.3	5.298	4.668	16.893	14.885	8.3868E-04	8.8652E-04	0.389
19	108	327.5	589.5	5.521	5.217	16.914	14.904	9.3599E-04	9.8932E-04	0.362
20	110	326.1	587.0	6.238	5.497	16.944	14.930	9.8434E-04	1.0403E-03	0.218
21	111	325.7	586.2	5.399	5.286	16.952	14.937	9.4607E-04	9.9983E-04	0.226
22	112	324.6	584.3	5.518	4.862	16.975	14.957	8.6897E-04	9.1828E-04	0.327
23	113	323.8	582.8	4.623	4.074	16.993	14.973	7.2727E-04	7.6849E-04	0.385
24	114	322.2	580.0	3.037	2.676	17.026	15.002	4.7671E-04	5.0366E-04	0.399
25	115	320.8	577.4	1.691	1.490	17.055	15.028	2.6502E-04	2.7997E-04	0.446
26	116	319.9	575.9	0.864	0.762	17.074	15.044	1.3529E-04	1.4291E-04	0.501
27	117	319.0	574.3	0.471	0.415	17.092	15.061	7.3627E-05	7.7772E-05	0.518
28	118	318.3	573.0	0.340	0.300	17.108	15.074	5.3107E-05	5.6094E-05	0.396
29	119	317.5	571.5	0.203	0.178	17.125	15.090	3.1601E-05	3.3376E-05	0.400
30	120	316.4	569.6	0.027	0.023	17.148	15.109	4.1317E-06	4.3635E-06	1.017
31	203	324.8	584.7	5.258	4.633	16.970	14.953	8.2832E-04	8.7534E-04	0.352
32	205	325.4	585.7	5.338	4.704	16.958	14.942	8.4154E-04	8.8935E-04	0.357
33	207	325.3	585.6	5.378	4.739	16.959	14.944	8.4783E-04	8.9598E-04	0.373
34	208	324.8	584.6	5.573	5.243	16.971	14.954	9.4085E-04	9.9424E-04	0.376
35	210	323.6	582.5	6.491	5.720	16.996	14.975	1.0209E-03	1.0788E-03	0.225
36	211	323.1	581.7	6.501	5.729	17.006	14.984	1.0218E-03	1.0797E-03	0.226
37	212	322.2	579.9	6.233	5.492	17.026	15.002	9.7836E-04	1.0337E-03	0.347
38	213	338.7	609.7	-0.000	-0.000	16.678	14.696	-1.2622E-14	-1.3353E-14	*******
39	214	338.7	609.7	0.000	0.000	16.678	14.695	3.4185E-16	3.6164E-16	*******
40	215	319.3	574.8	5.277	4.650	17.086	15.055	8.2520E-04	8.7167E-04	0.343
41	216	314.8	566.6	4.635	4.084	17.183	15.140	7.2050E-04	7.6082E-04	0.357
42	217	314.9	566.7	3.764	3.316	17.181	15.138	5.8508E-04	6.1783E-04	0.362
43	218	314.2	565.5	2.794	2.462	17.195	15.151	4.3396E-04	4.5822E-04	0.354
44	219	313.5	564.4	1.765	1.555	17.209	15.163	2.7388E-04	2.8918E-04	0.349
45	220	313.2	563.7	0.358	0.316	17.216	15.170	5.5539E-05	5.8640E-05	0.858
46	406	322.1	579.7	5.045	4.445	17.029	15.005	7.9180E-04	8.3656E-04	0.318
47	407	322.1	579.9	4.564	4.021	17.027	15.003	7.1632E-04	7.5683E-04	0.300
48	408	321.5	578.7	3.768	3.320	17.040	15.014	5.9088E-04	6.2426E-04	0.331
49	409	321.1	578.0	3.447	3.037	17.049	15.022	5.4024E-04	5.7074E-04	0.308
50	410	320.9	577.7	0.098	0.087	17.053	15.026	1.5421E-05	1.6292E-05	-18.480
51	411	320.2	576.3	2.918	2.571	17.068	15.039	4.5679E-04	4.8255E-04	0.297
52	412	319.0	574.2	2.440	2.150	17.094	15.062	3.8137E-04	4.0284E-04	0.341
53	413	317.3	571.2	2.141	1.887	17.128	15.092	3.3394E-04	3.5270E-04	0.355
54	414	317.3	571.2	1.797	1.584	17.129	15.093	2.8030E-04	2.9605E-04	0.321
55	415	316.7	570.0	1.612	1.421	17.143	15.105	2.5121E-04	2.6531E-04	0.327
56	416	315.7	568.3	1.388	1.223	17.163	15.123	2.1597E-04	2.2807E-04	0.339
57	417	314.8	566.7	1.145	1.009	17.181	15.139	1.7803E-04	1.8800E-04	0.346
58	418	314.6	566.3	0.842	0.742	17.186	15.143	1.3090E-04	1.3823E-04	0.332
59	419	314.2	565.6	0.488	0.430	17.194	15.150	7.5875E-05	8.0118E-05	0.345
60	420	313.7	564.7	0.064	0.057	17.205	15.160	9.9650E-06	1.0522E-05	1.354
61	506	322.0	579.5	4.242	3.738	17.031	15.006	6.6564E-04	7.0327E-04	0.292
62	507	321.3	578.3	3.643	3.210	17.045	15.019	5.7124E-04	6.0350E-04	0.262
63	508	320.6	577.1	2.905	2.560	17.060	15.032	4.5504E-04	4.8072E-04	0.284
64	509	319.5	575.0	2.227	1.962	17.083	15.053	3.4824E-04	3.6786E-04	0.293
65	510	319.2	574.6	1.905	1.679	17.089	15.058	2.9789E-04	3.1467E-04	0.308
66	511	318.6	573.5	1.731	1.526	17.101	15.069	2.7047E-04	2.8569E-04	0.314
67	512	318.6	573.4	1.326	1.168	17.102	15.070	2.0710E-04	2.1875E-04	0.382
68	513	318.1	572.5	1.058	0.932	17.113	15.079	1.6512E-04	1.7440E-04	0.406
69	514	317.4	571.4	0.739	0.651	17.126	15.090	1.1525E-04	1.2173E-04	0.369
70	515	316.6	569.9	0.396	0.505	17.144	15.106	9.2798E-05	9.8004E-05	0.359
71	516	316.7	570.1	0.327	0.464	17.142	15.104	8.2141E-05	8.6751E-05	0.375
72	517	316.1	569.0	0.476	0.420	17.154	15.115	7.4174E-05	7.8333E-05	0.404
73	518	315.5	567.9	0.385	0.339	17.168	15.127	5.9939E-05	6.3296E-05	0.358
74	519	314.8	566.7	0.219	0.193	17.182	15.139	3.4031E-05	3.5935E-05	0.402
75	520	313.7	564.6	0.050	0.044	17.206	15.160	7.7875E-06	8.2227E-06	1.511

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3828E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.859	16.C26	16.342
PT2/PT1	5.546E-02	5.272E-02	5.376E-02
TEMP(DEG R)	2025.9	2075.8	2131.0
TT2/TT1	1.0023	1.C270	1.0543

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 1H2 RUN NO. 41 FRAME 27 TO 52 CONSTANT SET 602

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1 5.1C	0.1944E 07	304.33	2063.00	1.CCCC

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.331	2062.360	0.284	0.332	761.938	-0.292	17.6016
0.070	304.331	2062.231	0.284	0.371	761.938	-0.292	17.6097
0.140	304.514	2062.746	0.284	0.704	770.128	-0.292	17.4806
0.210	304.331	2062.746	0.3C8	2.411	797.988	-0.292	17.4483
0.280	304.514	2062.101	0.597	5.722	1054.771	-0.292	17.5451
0.350	304.514	2062.489	2.7C9	8.562	1663.344	-0.292	17.4725
0.420	304.331	2062.101	7.3C9	11.284	1962.355	-0.318	17.5653
0.490	304.331	2062.748	11.588	13.797	2038.304	-0.305	17.5935
0.560	304.331	2062.748	13.963	15.231	2075.836	-0.292	17.5209
0.630	304.514	2062.360	15.318	15.665	2097.064	-0.292	17.3031
0.700	304.331	2061.973	16.141	15.465	2118.201	-0.305	17.5298
0.770	304.514	2061.972	16.433	15.011	2110.525	-0.305	34.7474
0.840	304.331	2062.359	16.367	14.736	2115.643	-0.305	34.8522
0.910	304.331	2063.002	16.2C5	14.770	2095.780	-0.292	34.9168
0.980	304.331	2062.230	16.088	14.936	2120.757	-0.305	34.9249
1.050	304.331	2062.102	16.072	15.125	2148.790	-0.305	34.9249
1.120	304.331	2061.842	16.1C1	15.281	2141.159	-0.318	34.9285
1.190	304.331	2062.099	16.1C1	15.403	2115.643	-0.305	34.9249
1.260	304.331	2062.487	16.075	15.509	2111.805	-0.292	34.9168
1.330	304.514	2061.840	16.056	15.548	2128.417	-0.292	34.9208
1.400	304.331	2060.158	16.075	15.559	2145.612	-0.305	34.9249
1.470	304.331	2059.899	16.101	15.631	2153.870	-0.305	34.9249
1.540	304.331	2060.285	16.1C4	15.704	2143.704	-0.318	34.9249
1.610	304.514	2060.413	16.1C1	15.731	2153.870	-0.292	34.9249
1.680	304.514	2060.156	16.1C4	15.742	2135.429	-0.292	34.9249
1.750	304.514	2059.771	16.106	15.756	2148.154	-0.305	34.9249

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.3780E 06	1.9440E 06	0.305	20.70	1146.1	0.12134E 07	0.3048	1.000	RUN NO.	41
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)		RS(FT)	HAW/HT		
5.10	1.9440E 06	1.9440E 06	1.000	304.33	2063.0	521.79	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.255	0.2977	0.2977	0.3397	0.3583	39	214	0.280	0.0000	0.0000	0.0000	0.0000
2	2	0.280	0.0000	0.0000	0.0000	0.0000	40	215	0.251	0.3287	0.3287	0.3748	0.3952
3	3	0.256	0.3084	0.3084	0.3519	0.3713	41	216	0.248	0.2890	0.2890	0.3292	0.3471
4	4	0.256	0.3237	0.3237	0.3694	0.3897	42	217	0.248	0.2384	0.2384	0.2717	0.2864
5	5	0.256	0.3356	0.3356	0.3829	0.4040	43	218	0.247	0.1800	0.1800	0.2050	0.2162
6	6	0.256	0.3517	0.3517	0.4013	0.4234	44	219	0.247	0.1149	0.1149	0.1309	0.1380
7	7	0.256	0.3499	0.3499	0.3993	0.4213	45	220	0.247	0.0264	0.0264	0.0300	0.0317
8	8	0.256	0.3439	0.3439	0.3925	0.4141	46	406	0.254	0.2887	0.2887	0.3293	0.3474
9	9	0.255	0.3119	0.3119	0.3558	0.3754	47	407	0.254	0.2866	0.2866	0.3269	0.3448
10	10	0.254	0.2917	0.2917	0.3327	0.3510	48	408	0.253	0.2517	0.2517	0.2871	0.3029
11	11	0.254	0.2586	0.2586	0.2950	0.3112	49	409	0.253	0.2301	0.2301	0.2625	0.2768
12	12	0.254	0.2130	0.2130	0.2430	0.2563	50	410	0.253	0.0272	0.0272	0.0310	0.0327
13	13	0.254	0.1611	0.1611	0.1838	0.1939	51	411	0.252	0.1917	0.1917	0.2186	0.2306
14	14	0.255	0.1235	0.1235	0.1409	0.1486	52	412	0.251	0.1584	0.1584	0.1806	0.1905
15	15	0.255	0.0904	0.0904	0.1032	0.1088	53	413	0.250	0.1345	0.1345	0.1533	0.1617
16	103	0.259	0.3133	0.3133	0.3577	0.3775	54	414	0.250	0.1133	0.1133	0.1291	0.1361
17	105	0.260	0.2984	0.2984	0.3408	0.3596	55	415	0.249	0.1013	0.1013	0.1154	0.1217
18	107	0.259	0.2972	0.2972	0.3393	0.3580	56	416	0.249	0.0869	0.0869	0.0990	0.1044
19	108	0.258	0.3072	0.3072	0.3507	0.3700	57	417	0.248	0.0726	0.0726	0.0827	0.0872
20	110	0.257	0.3030	0.3030	0.3459	0.3649	58	418	0.248	0.0543	0.0543	0.0619	0.0652
21	111	0.257	0.2867	0.2867	0.3272	0.3452	59	419	0.247	0.0318	0.0318	0.0362	0.0382
22	112	0.256	0.2625	0.2625	0.2995	0.3160	60	420	0.247	0.0052	0.0052	0.0059	0.0063
23	113	0.255	0.2245	0.2245	0.2561	0.2701	61	506	0.254	0.2863	0.2863	0.3266	0.3445
24	114	0.254	0.1620	0.1620	0.1848	0.1950	62	507	0.253	0.2662	0.2662	0.3036	0.3203
25	115	0.252	0.1011	0.1011	0.1153	0.1216	63	508	0.253	0.2138	0.2138	0.2438	0.2572
26	116	0.252	0.0534	0.0534	0.0609	0.0643	64	509	0.252	0.1612	0.1612	0.1838	0.1938
27	117	0.251	0.0280	0.0280	0.0320	0.0337	65	510	0.251	0.1371	0.1371	0.1563	0.1648
28	118	0.250	0.0177	0.0177	0.0202	0.0213	66	511	0.251	0.1235	0.1235	0.1408	0.1485
29	119	0.250	0.0101	0.0101	0.0115	0.0121	67	512	0.251	0.0928	0.0928	0.1058	0.1116
30	120	0.249	0.0015	0.0015	0.0017	0.0018	68	513	0.251	0.0737	0.0737	0.0840	0.0885
31	203	0.256	0.3046	0.3046	0.3476	0.3667	69	514	0.250	0.0514	0.0514	0.0586	0.0618
32	205	0.257	0.3084	0.3084	0.3520	0.3714	70	515	0.249	0.0415	0.0415	0.0473	0.0498
33	207	0.257	0.3027	0.3027	0.3455	0.3645	71	516	0.249	0.0385	0.0385	0.0439	0.0463
34	208	0.256	0.3128	0.3128	0.3570	0.3766	72	517	0.249	0.0344	0.0344	0.0393	0.0414
35	210	0.255	0.3341	0.3341	0.3812	0.4021	73	518	0.248	0.0288	0.0288	0.0329	0.0346
36	211	0.255	0.3428	0.3428	0.3911	0.4125	74	519	0.248	0.0194	0.0194	0.0221	0.0233
37	212	0.254	0.3454	0.3454	0.3939	0.4155	75	520	0.247	0.0048	0.0048	0.0054	0.0057
38	213	0.280	-0.0000	-0.0000	-0.0000	-0.0000							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	0.3780E 06	1.9440E 06	0.309	20.70	1146.1	0.1219+E 07	0.9048	1.000	RUN NO. 41
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9440E 06	1.9440E 06	1.000	304.33	2063.6	521.79	1.0000	1.000

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	308.0	554.4	5.319	4.686	17.864	15.741	8.0547E-04	8.4970E-04	0.284
2	2	308.7	609.6	5.300	0.000	17.215	15.169	3.2273E-16	3.4128E-16	*******
3	3	308.9	556.0	5.503	4.849	17.845	15.724	8.3444E-04	8.8033E-04	0.302
4	4	309.0	556.1	5.777	5.090	17.843	15.722	8.7593E-04	9.2410E-04	0.296
5	5	309.1	556.4	5.387	5.275	17.840	15.719	9.0803E-04	9.5798E-04	0.297
6	6	309.0	556.2	6.275	5.529	17.843	15.722	9.5156E-04	1.0039E-03	0.321
7	7	309.4	556.8	6.241	5.499	17.835	15.715	9.4684E-04	9.9894E-04	0.344
8	8	309.7	557.5	6.131	5.402	17.827	15.708	9.3057E-04	9.8180E-04	0.357
9	9	308.0	554.5	5.572	4.909	17.863	15.740	8.4385E-04	8.9020E-04	0.305
10	10	306.6	551.9	5.220	4.600	17.894	15.767	7.8915E-04	8.3241E-04	0.301
11	11	306.7	552.1	4.627	4.077	17.891	15.765	6.9961E-04	7.3796E-04	0.299
12	12	306.8	552.3	3.811	3.358	17.888	15.762	5.7632E-04	6.0792E-04	0.268
13	13	307.4	553.3	2.880	2.538	17.877	15.752	4.3581E-04	4.5972E-04	0.236
14	14	308.1	554.6	2.206	1.943	17.862	15.738	3.3407E-04	3.5242E-04	0.175
15	15	307.7	553.9	1.616	1.424	17.870	15.746	2.4463E-04	2.5806E-04	0.098
16	103	312.5	562.4	5.567	4.906	17.769	15.657	8.4797E-04	8.9483E-04	0.311
17	105	313.6	564.4	5.296	4.667	17.746	15.637	8.0777E-04	8.5247E-04	0.305
18	107	312.9	563.3	5.277	4.650	17.759	15.648	8.0427E-04	8.4874E-04	0.315
19	108	312.1	561.8	5.461	4.812	17.777	15.664	8.3132E-04	8.7723E-04	0.282
20	110	310.6	559.1	5.397	4.755	17.809	15.692	8.2005E-04	8.6525E-04	0.215
21	111	310.0	558.0	5.109	4.502	17.821	15.703	7.7572E-04	8.1844E-04	0.227
22	112	308.9	556.0	4.684	4.128	17.845	15.724	7.1026E-04	7.4931E-04	0.301
23	113	308.0	554.4	4.010	3.533	17.864	15.740	6.0728E-04	6.4063E-04	0.330
24	114	306.4	551.5	2.900	2.556	17.898	15.771	4.3836E-04	4.6238E-04	0.303
25	115	304.9	548.9	1.813	1.597	17.929	15.798	2.7344E-04	2.8840E-04	0.322
26	116	304.1	547.4	0.959	0.845	17.947	15.813	1.4456E-04	1.5246E-04	0.428
27	117	303.2	545.8	0.504	0.444	17.965	15.830	7.5845E-05	7.9984E-05	0.507
28	118	302.6	544.7	0.318	0.281	17.978	15.841	4.7891E-05	5.0503E-05	0.311
29	119	302.0	543.6	0.182	0.160	17.992	15.853	2.7292E-05	2.8779E-05	0.304
30	120	301.0	541.7	0.027	0.024	18.013	15.872	4.1122E-06	4.3359E-06	1.031
31	203	309.5	557.1	5.431	4.786	17.833	15.713	8.2412E-04	8.6947E-04	0.301
32	205	310.1	558.2	5.496	4.842	17.819	15.701	8.3454E-04	8.8050E-04	0.303
33	207	309.9	557.9	5.396	4.754	17.823	15.704	8.1920E-04	8.6430E-04	0.302
34	208	309.3	556.7	5.580	4.917	17.837	15.717	8.4644E-04	8.9301E-04	0.299
35	210	308.1	554.5	5.968	5.259	17.863	15.739	9.0394E-04	9.5359E-04	0.272
36	211	307.6	553.6	6.127	5.399	17.873	15.749	9.2742E-04	9.7833E-04	0.278
37	212	306.6	551.8	6.180	5.445	17.894	15.767	9.2423E-04	9.8544E-04	0.310
38	213	338.7	609.6	-0.000	-0.000	17.215	15.169	-6.2552E-08	-6.6135E-08	2.663
39	214	338.7	609.7	0.000	0.000	17.214	15.168	3.1594E-16	3.3404E-16	*******
40	215	303.6	546.4	5.903	5.201	17.957	15.823	8.8901E-04	9.3755E-04	0.299
41	216	299.4	538.8	5.215	4.595	18.047	15.902	7.8122E-04	8.2364E-04	0.303
42	217	299.4	539.0	4.302	3.791	18.045	15.900	6.4462E-04	6.7962E-04	0.305
43	218	298.9	538.0	3.250	2.863	18.057	15.911	4.8654E-04	5.1294E-04	0.307
44	219	298.4	537.1	2.076	1.829	18.068	15.920	3.1066E-04	3.2751E-04	0.307
45	220	298.0	536.5	0.477	0.420	18.075	15.927	7.1308E-05	7.5173E-05	0.827
46	406	306.8	552.3	5.165	4.551	17.889	15.762	7.8101E-04	8.2384E-04	0.278
47	407	306.7	552.1	5.127	4.517	17.890	15.764	7.7523E-04	8.1773E-04	0.258
48	408	306.2	551.2	4.507	3.971	17.902	15.774	6.8100E-04	7.1831E-04	0.229
49	409	305.7	550.3	4.122	3.632	17.912	15.783	6.2254E-04	6.5662E-04	0.251
50	410	305.3	549.5	0.487	0.429	17.921	15.791	7.3475E-05	7.7496E-05	-3.038
51	411	304.8	548.6	3.438	3.029	17.932	15.801	5.1853E-04	5.4688E-04	0.286
52	412	303.5	546.2	2.845	2.507	17.960	15.825	4.2841E-04	4.5180E-04	0.327
53	413	301.8	543.3	2.420	2.133	17.995	15.856	3.6371E-04	3.8353E-04	0.319
54	414	301.7	543.0	2.038	1.796	17.998	15.859	3.0626E-04	3.2294E-04	0.285
55	415	301.1	541.9	1.824	1.607	18.011	15.870	2.7385E-04	2.8875E-04	0.281
56	416	300.3	540.6	1.567	1.381	18.027	15.884	2.3500E-04	2.4778E-04	0.282
57	417	299.6	539.2	1.309	1.153	18.043	15.898	1.9616E-04	2.0682E-04	0.293
58	418	299.3	538.7	0.980	0.864	18.049	15.904	1.4685E-04	1.5483E-04	0.290
59	419	298.9	538.1	0.574	0.506	18.056	15.910	8.5925E-05	9.0588E-05	0.298
60	420	298.6	537.5	0.094	0.083	18.063	15.916	1.4081E-05	1.4845E-05	1.190
61	506	306.8	552.2	5.122	4.513	17.889	15.763	7.7458E-04	8.1705E-04	0.265
62	507	306.2	551.2	4.765	4.199	17.901	15.773	7.2011E-04	7.5957E-04	0.218
63	508	305.5	550.0	3.830	3.375	17.916	15.786	5.7829E-04	6.0995E-04	0.169
64	509	304.4	548.0	2.892	2.548	17.939	15.807	4.3596E-04	4.5979E-04	0.230
65	510	303.8	546.9	2.461	2.168	17.952	15.818	3.7073E-04	3.9098E-04	0.294
66	511	303.4	546.1	2.218	1.955	17.961	15.826	3.3402E-04	3.5225E-04	0.311
67	512	303.2	545.8	1.668	1.470	17.965	15.830	2.5108E-04	2.6478E-04	0.376
68	513	302.8	545.0	1.324	1.166	17.974	15.838	1.9918E-04	2.1004E-04	0.390
69	514	302.1	543.7	0.929	0.819	17.989	15.851	1.3900E-04	1.4658E-04	0.331
70	515	301.0	541.9	0.747	0.658	18.011	15.871	1.1213E-04	1.1823E-04	0.296
71	516	301.1	542.0	0.694	0.611	18.010	15.870	1.0417E-04	1.0984E-04	0.368
72	517	300.7	541.3	0.621	0.547	18.019	15.877	9.3147E-05	9.8213E-05	0.354
73	518	300.0	540.0	0.420	0.458	18.033	15.890	7.7955E-05	8.2189E-05	0.308
74	519	299.4	539.0	0.349	0.308	18.045	15.900	5.2339E-05	5.5181E-05	0.335
75	520	298.5	537.3	0.086	0.076	18.065	15.918	1.2855E-05	1.3552E-05	1.102

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.3068E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.575	16.106	15.756
PT2/PT1	5.446E-02	5.292E-02	5.177E-02
TEMP(DEG R)	2122.0	2148.2	2177.9
TT2/TT1	1.0286	1.0413	1.0557

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 42 FRAME 26 TO 51 CONSTANT SET 602

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1963E 07		304.64	2052.40	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.639	2052.404	0.286	0.364	766.494	-0.305	17.5895
0.070	304.456	2052.146	0.278	0.372	766.494	-0.318	17.6056
0.140	304.456	2052.404	0.278	0.441	768.312	-0.318	17.6097
0.210	304.639	2053.182	0.288	1.003	782.776	-0.305	17.5734
0.280	304.639	2052.533	0.323	3.124	833.192	-0.305	17.5814
0.350	304.456	2052.145	0.879	6.599	1229.541	-0.305	17.5895
0.420	304.456	2051.888	3.803	9.267	1772.671	-0.331	17.5976
0.490	304.639	2052.274	8.679	12.111	1992.616	-0.331	17.6056
0.560	304.456	2053.053	12.329	14.401	2031.804	-0.318	17.6016
0.630	304.639	2052.403	14.271	15.521	2051.279	-0.305	17.5976
0.700	304.639	2051.887	15.429	15.708	2086.140	-0.305	17.6016
0.770	304.456	2051.888	16.039	15.374	2092.568	-0.331	33.8840
0.840	304.456	2052.016	16.153	14.935	2086.140	-0.318	34.9208
0.910	304.639	2052.403	16.012	14.726	2097.705	-0.331	34.9128
0.980	304.639	2052.533	15.888	14.796	2127.034	-0.318	34.9168
1.050	304.639	2051.887	15.856	14.9[illegible]	2[illegible]0.060	-0.318	34.9128
1.120	304.456	2051.629	15.851	15.188	2132.881	-0.331	34.9168
1.190	304.456	2051.887	15.835	15.395	2107.523	-0.318	34.9249
1.260	304.639	2052.403	15.827	15.494	2107.964	-0.331	34.9208
1.330	304.639	2052.274	15.808	15.591	2111.805	-0.305	34.9168
1.400	304.456	2051.885	15.806	15.633	2132.881	-0.305	34.9208
1.470	304.456	2051.628	15.827	15.688	2142.432	-0.331	34.9208
1.540	304.456	2051.885	15.835	15.724	2132.881	-0.331	34.9289
1.610	304.456	2052.143	15.845	15.780	2126.503	-0.331	34.9249
1.680	304.639	2052.143	15.830	15.811	2126.503	-0.318	34.9208
1.750	304.639	2051.627	15.795	15.827	2130.968	-0.305	34.9208

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.4404E 08	1.9630E 06	0.305	20.72	1140.2	0.12065E 07	0.3048	1.000	RUN NO.	42
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9630E 06	1.9630E 06	1.000	304.64	2052.4	518.84	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.259	0.2956	0.2956	0.3375	0.3561	39	214	0.282	0.0000	0.0000	0.0000	0.0000
2	2	0.282	0.0000	0.0000	0.0000	0.0000	40	215	0.255	0.1062	0.1062	0.1212	0.1279
3	3	0.259	0.2933	0.2933	0.3349	0.3534	41	216	0.252	0.0670	0.0670	0.0764	0.0806
4	4	0.259	0.3025	0.3025	0.3454	0.3646	42	217	0.252	0.0410	0.0410	0.0468	0.0493
5	5	0.259	0.3092	0.3092	0.3530	0.3726	43	218	0.251	0.0213	0.0213	0.0243	0.0256
6	6	0.259	0.3205	0.3205	0.3660	0.3862	44	219	0.251	0.0094	0.0094	0.0108	0.0114
7	7	0.260	0.3398	0.3398	0.3880	0.4095	45	220	0.251	0.0011	0.0011	0.0013	0.0014
8	8	0.260	0.3448	0.3448	0.3937	0.4155	46	406	0.258	0.2737	0.2737	0.3125	0.3297
9	9	0.259	0.3084	0.3084	0.3521	0.3716	47	407	0.258	0.2677	0.2677	0.3056	0.3225
10	10	0.258	0.2958	0.2958	0.3377	0.3563	48	408	0.258	0.2319	0.2319	0.2647	0.2793
11	11	0.258	0.2522	0.2522	0.2878	0.3037	49	409	0.257	0.2023	0.2023	0.2309	0.2436
12	12	0.258	0.2006	0.2006	0.2290	0.2416	50	410	0.257	0.1697	0.1697	0.1937	0.2044
13	13	0.258	0.1490	0.1490	0.1701	0.1795	51	411	0.256	0.1451	0.1451	0.1656	0.1747
14	14	0.259	0.1127	0.1127	0.1287	0.1358	52	412	0.255	0.0888	0.0888	0.1013	0.1069
15	15	0.258	0.0824	0.0824	0.0940	0.0992	53	413	0.254	0.0501	0.0501	0.0571	0.0602
16	103	0.263	0.3164	0.3164	0.3615	0.3816	54	414	0.254	0.0144	0.0144	0.0165	0.0174
17	105	0.264	0.3082	0.3082	0.3522	0.3718	55	415	0.253	0.0034	0.0034	0.0038	0.0041
18	107	0.263	0.3031	0.3031	0.3464	0.3657	56	416	0.253	0.0003	0.0003	0.0004	0.0004
19	108	0.262	0.3066	0.3066	0.3503	0.3698	57	417	0.252	-0.0001	-0.0001	-0.0001	-0.0001
20	110	0.261	0.2917	0.2917	0.3332	0.3517	58	418	0.252	-0.0001	-0.0001	-0.0002	-0.0002
21	111	0.260	0.2692	0.2692	0.3074	0.3244	59	419	0.252	-0.0009	-0.0009	-0.0010	-0.0010
22	112	0.260	0.2260	0.2260	0.2580	0.2723	60	420	0.251	-0.0008	-0.0008	-0.0009	-0.0010
23	113	0.259	0.1678	0.1678	0.1915	0.2021	61	506	0.258	0.2624	0.2624	0.2996	0.3161
24	114	0.257	0.0761	0.0761	0.0869	0.0916	62	507	0.258	0.2546	0.2546	0.2906	0.3066
25	115	0.256	0.0230	0.0230	0.0263	0.0277	63	508	0.257	0.2511	0.2511	0.2866	0.3024
26	116	0.256	0.0061	0.0061	0.0069	0.0073	64	509	0.256	0.2281	0.2281	0.2603	0.2747
27	117	0.255	0.0020	0.0020	0.0023	0.0024	65	510	0.256	0.2118	0.2118	0.2417	0.2550
28	118	0.254	0.0012	0.0012	0.0014	0.0015	66	511	0.255	0.2006	0.2006	0.2289	0.2415
29	119	0.254	0.0005	0.0005	0.0006	0.0006	67	512	0.255	0.1640	0.1640	0.1871	0.1974
30	120	0.253	-0.0000	-0.0000	-0.0000	-0.0000	68	513	0.255	0.1261	0.1261	0.1439	0.1518
31	203	0.261	0.3102	0.3102	0.3543	0.3739	69	514	0.254	0.0603	0.0603	0.0688	0.0726
32	205	0.261	0.3133	0.3133	0.3579	0.3777	70	515	0.253	0.0281	0.0281	0.0321	0.0339
33	207	0.261	0.3000	0.3000	0.3426	0.3616	71	516	0.253	0.0188	0.0188	0.0215	0.0226
34	208	0.260	0.2994	0.2994	0.3419	0.3609	72	517	0.253	0.0196	0.0196	0.0223	0.0236
35	210	0.259	0.2938	0.2938	0.3355	0.3540	73	518	0.253	0.0184	0.0184	0.0210	0.0221
36	211	0.259	0.2851	0.2851	0.3255	0.3435	74	519	0.252	0.0158	0.0158	0.0180	0.0189
37	212	0.258	0.2589	0.2589	0.2955	0.3119	75	520	0.251	0.0029	0.0029	0.0033	0.0035
38	213	0.262	0.0000	0.0000	0.0000	0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.4404E 06	1.9630E 06	0.305	20.72	1140.2	0.12065E 07	0.3048	1.000	RUN NO.	42
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9630E C6	1.9630E 06	1.000	304.64	2052.4	518.84	1.0000	1.000		

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	310.8	559.4	5.226	4.605	17.680	15.579	7.9664E-04	8.4065E-04	0.363
2	2	338.7	609.6	0.000	0.000	17.090	15.058	1.7535E-16	1.8542E-16	*******
3	3	311.5	560.7	5.181	4.565	17.664	15.564	7.9048E-04	8.3421E-04	0.360
4	4	311.6	560.9	5.344	4.708	17.662	15.563	8.1541E-04	8.6052E-04	0.352
5	5	311.7	561.1	5.460	4.811	17.660	15.561	8.3332E-04	8.7942E-04	0.343
6	6	311.6	561.0	5.660	4.988	17.661	15.562	8.6384E-04	9.1163E-04	0.358
7	7	312.0	561.6	5.998	5.285	17.654	15.556	9.1580E-04	9.6649E-04	0.387
8	8	312.3	562.1	6.085	5.361	17.648	15.550	9.2931E-04	9.8076E-04	0.404
9	9	310.7	559.2	5.453	4.805	17.682	15.580	8.3122E-04	8.7715E-04	0.357
10	10	309.7	557.5	5.237	4.614	17.702	15.598	7.9722E-04	8.4121E-04	0.357
11	11	309.9	557.8	4.463	3.932	17.699	15.595	6.7953E-04	7.1703E-04	0.330
12	12	310.0	557.9	3.549	3.128	17.697	15.593	5.4052E-04	5.7036E-04	0.280
13	13	310.4	558.6	2.635	2.322	17.689	15.586	4.0150E-04	4.2367E-04	0.226
14	14	310.6	559.1	1.993	1.756	17.683	15.581	3.0372E-04	3.2050E-04	0.140
15	15	310.5	558.9	1.457	1.283	17.686	15.584	2.2196E-04	2.3422E-04	0.086
16	103	315.7	568.2	5.560	4.899	17.576	15.487	8.5297E-04	9.0042E-04	0.364
17	105	316.7	570.0	5.411	4.768	17.555	15.469	8.3107E-04	8.7736E-04	0.361
18	107	315.9	568.6	5.327	4.693	17.571	15.483	8.1736E-04	8.6284E-04	0.361
19	108	315.0	567.0	5.394	4.752	17.590	15.499	8.2668E-04	8.7263E-04	0.341
20	110	313.5	564.3	5.141	4.530	17.623	15.528	7.8638E-04	8.2999E-04	0.263
21	111	312.9	563.2	4.747	4.183	17.635	15.539	7.2555E-04	7.6575E-04	0.259
22	112	311.7	561.1	3.990	3.516	17.659	15.560	6.0901E-04	6.4270E-04	0.334
23	113	310.9	559.6	2.966	2.613	17.678	15.576	4.5214E-04	4.7713E-04	0.421
24	114	309.3	556.8	1.348	1.188	17.710	15.605	2.0506E-04	2.1637E-04	0.560
25	115	307.9	554.3	0.408	0.360	17.740	15.632	6.2038E-05	6.5453E-05	0.646
26	116	307.0	552.7	0.108	0.095	17.759	15.648	1.6334E-05	1.7232E-05	0.565
27	117	306.2	551.2	0.035	0.031	17.776	15.663	5.3803E-06	5.6758E-06	0.496
28	118	305.6	550.1	0.021	0.019	17.789	15.675	3.2500E-06	3.4284E-06	0.400
29	119	305.1	549.3	0.009	0.008	17.799	15.683	1.3294E-06	1.4023E-06	0.300
30	120	304.3	547.7	-0.000	-0.000	17.817	15.699	-2.8730E-08	-3.0304E-08	-25.265
31	203	313.0	563.3	5.470	4.820	17.633	15.537	8.3619E-04	8.8253E-04	0.350
32	205	313.5	564.4	5.521	4.865	17.621	15.527	8.4462E-04	8.9147E-04	0.353
33	207	313.2	563.9	5.288	4.659	17.627	15.532	8.0862E-04	8.5346E-04	0.350
34	208	312.5	562.6	5.283	4.655	17.642	15.545	8.0708E-04	8.5179E-04	0.346
35	210	311.3	560.4	5.191	4.574	17.668	15.568	7.9192E-04	8.3572E-04	0.294
36	211	310.8	559.5	5.040	4.441	17.678	15.577	7.6838E-04	8.1083E-04	0.282
37	212	309.9	557.8	4.582	4.038	17.699	15.595	6.9770E-04	7.3621E-04	0.332
38	213	338.7	609.6	0.000	0.000	17.090	15.058	1.2322E-16	1.3030E-16	*******
39	214	338.7	609.7	0.000	0.000	17.089	15.058	3.4555E-16	3.6540E-16	*******
40	215	306.8	552.3	1.887	1.663	17.764	15.652	2.8617E-04	3.0190E-04	0.446
41	216	302.4	544.3	1.197	1.055	17.857	15.735	1.8053E-04	1.9039E-04	0.482
42	217	302.5	544.5	0.733	0.646	17.855	15.733	1.1050E-04	1.1654E-04	0.545
43	218	301.9	543.4	0.381	0.336	17.868	15.744	5.7400E-05	6.0534E-05	0.586
44	219	301.4	542.6	0.169	0.149	17.878	15.753	2.5444E-05	2.6832E-05	0.790
45	220	301.2	542.2	0.020	0.018	17.883	15.757	3.0613E-06	3.2283E-06	2.798
46	406	310.3	558.6	4.842	4.266	17.689	15.586	7.3766E-04	7.7840E-04	0.324
47	407	310.3	558.5	4.735	4.173	17.691	15.588	7.2139E-04	7.6122E-04	0.314
48	408	309.6	557.3	4.105	3.617	17.704	15.600	6.2488E-04	6.5936E-04	0.244
49	409	309.1	556.4	3.584	3.158	17.715	15.609	5.4513E-04	5.7518E-04	0.204
50	410	308.9	556.0	3.007	2.650	17.720	15.613	4.5728E-04	4.8249E-04	0.216
51	411	308.1	554.6	2.573	2.268	17.736	15.628	3.9096E-04	4.1249E-04	0.254
52	412	306.8	552.2	1.578	1.390	17.765	15.653	2.3927E-04	2.5242E-04	0.382
53	413	305.1	549.1	0.891	0.785	17.801	15.685	1.3489E-04	1.4229E-04	0.426
54	414	304.9	548.8	0.257	0.226	17.804	15.688	3.8865E-05	4.0996E-05	0.400
55	415	304.4	547.8	0.060	0.053	17.816	15.698	9.0827E-06	9.5803E-06	0.194
56	416	303.6	546.4	0.006	0.005	17.832	15.713	8.7166E-07	9.1937E-07	1.453
57	417	302.8	545.1	-0.002	-0.002	17.848	15.727	-2.7024E-07	-2.8501E-07	-9.027
58	418	302.5	544.6	-0.002	-0.002	17.854	15.732	-3.6049E-07	-3.8019E-07	-9.390
59	419	302.3	544.1	-0.015	-0.014	17.860	15.737	-2.3122E-06	-2.4385E-06	-0.942
60	420	302.0	543.7	-0.015	-0.013	17.865	15.741	-2.1919E-06	-2.3116E-06	-1.272
61	506	310.4	558.7	4.642	4.090	17.688	15.585	7.0725E-04	7.4631E-04	0.310
62	507	309.8	557.6	4.506	3.971	17.701	15.597	6.8604E-04	7.2390E-04	0.300
63	508	309.0	556.2	4.449	3.920	17.717	15.611	6.7668E-04	7.1398E-04	0.284
64	509	308.0	554.3	4.047	3.566	17.740	15.631	6.1469E-04	6.4853E-04	0.236
65	510	307.5	553.4	3.759	3.312	17.750	15.640	5.7061E-04	6.0200E-04	0.235
66	511	306.9	552.5	3.564	3.140	17.761	15.650	5.4057E-04	5.7029E-04	0.235
67	512	306.7	552.1	2.914	2.567	17.766	15.654	4.4187E-04	4.6616E-04	0.334
68	513	306.1	551.0	2.242	1.976	17.779	15.666	3.3973E-04	3.5839E-04	0.412
69	514	305.5	549.8	1.073	0.945	17.793	15.678	1.6242E-04	1.7133E-04	0.482
70	515	304.4	548.0	0.501	0.442	17.814	15.697	7.5800E-05	7.9953E-05	0.514
71	516	304.4	547.9	0.335	0.295	17.815	15.697	5.0683E-05	5.3460E-05	0.577
72	517	304.1	547.3	0.349	0.308	17.822	15.703	5.2776E-05	5.5666E-05	0.664
73	518	303.4	546.0	0.328	0.289	17.837	15.717	4.9550E-05	5.2261E-05	0.422
74	519	302.8	545.1	0.281	0.248	17.848	15.727	4.2430E-05	4.4750E-05	0.440
75	520	302.0	543.6	0.052	0.046	17.866	15.742	7.8981E-06	8.3294E-06	1.391

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3329E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.546	15.795	15.827
PT2/PT1	5.431E-02	5.185E-02	5.195E-02
TEMP(DEG R)	2101.6	2131.0	2181.7
TT2/TT1	1.0239	1.0383	1.0630

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 43 FRAME 26 TO 51 CONSTANT SET 311

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	C 0 8 1	5.10	0.5198E 06		74.51	1957.82	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	74.505	1956.502	0.084	0.106	670.364	-0.273	17.5994
0.070	74.506	1957.163	0.081	0.106	671.342	-0.286	17.6074
0.140	74.505	1957.292	0.079	0.134	670.364	-0.286	17.6155
0.210	74.505	1957.953	0.081	0.318	672.319	-0.286	17.6155
0.280	74.505	1957.820	0.100	0.826	705.101	-0.273	17.6074
0.350	74.505	1957.160	0.293	1.655	1005.814	-0.273	17.6034
0.420	74.505	1957.031	1.032	2.316	1453.924	-0.286	17.6074
0.490	74.505	1956.765	2.173	2.992	1707.881	-0.299	17.6115
0.560	74.505	1958.085	3.001	3.534	1806.822	-0.286	17.6115
0.630	74.506	1957.820	3.391	3.812	1855.611	-0.273	17.6074
0.700	74.506	1957.160	3.682	3.856	1868.468	-0.273	17.6074
0.770	74.505	1956.898	3.891	3.701	1875.802	-0.299	25.8140
0.840	74.505	1957.292	3.997	3.498	1901.929	-0.299	34.9122
0.910	74.505	1957.819	4.016	3.384	1909.273	-0.312	34.9243
0.980	74.505	1958.084	4.000	3.370	1908.606	-0.299	34.9284
1.050	74.505	1957.424	3.989	3.406	1924.594	-0.286	34.9243
1.120	74.505	1957.292	3.984	3.450	1951.124	-0.299	34.9284
1.190	74.505	1957.424	3.992	3.487	1962.355	-0.299	34.9324
1.260	74.505	1958.085	3.984	3.517	1955.752	-0.312	34.9324
1.330	74.505	1958.215	3.973	3.537	1966.973	-0.299	34.9284
1.400	74.505	1957.424	3.973	3.551	1968.950	-0.299	34.9243
1.470	74.505	1957.424	3.973	3.553	1985.397	-0.299	34.9284
1.540	74.505	1957.424	3.984	3.578	1998.515	-0.299	34.9324
1.610	74.506	1958.083	3.989	3.595	1986.054	-0.299	34.9284
1.680	74.505	1957.951	3.984	3.609	1988.680	-0.286	34.9324
1.750	74.505	1957.161	3.973	3.617	1994.583	-0.286	34.9243

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.7054E 06	5.1981E 05	0.305	5.07	1087.7	0.11458E 07	0.3048	1.000	RUN NO.	43
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.1981E 05	5.1981E 05	1.000	74.51	1957.8	492.70	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.268	0.1004	0.1004	0.1149	0.1213	39	208	0.270	0.0556	0.0556	0.0636	0.0672
2	2	0.297	0.0000	0.0000	0.0000	0.0000	40	210	0.270	0.0453	0.0453	0.0518	0.0547
3	3	0.268	0.0955	0.0955	0.1093	0.1154	41	211	0.268	0.0413	0.0413	0.0472	0.0499
4	4	0.268	0.0953	0.0953	0.1090	0.1151	42	212	0.268	0.0304	0.0304	0.0347	0.0367
5	5	0.268	0.0943	0.0943	0.1078	0.1139	43	213	0.297	0.0000	0.0000	0.0000	0.0000
6	6	0.268	0.0920	0.0920	0.1052	0.1111	44	214	0.297	0.0001	0.0001	0.0001	0.0001
7	7	0.268	0.0882	0.0882	0.1009	0.1066	45	215	0.266	0.0002	0.0002	0.0002	0.0002
8	8	0.268	0.0828	0.0828	0.0947	0.1000	46	306	0.297	0.0000	0.0000	0.0000	0.0000
9	9	0.269	0.0770	0.0770	0.0881	0.0930	47	307	0.269	0.0494	0.0494	0.0565	0.0597
10	10	0.269	0.0732	0.0732	0.0838	0.0885	48	308	0.269	0.0513	0.0513	0.0587	0.0620
11	11	0.269	0.0707	0.0707	0.0808	0.0854	49	309	0.268	0.0459	0.0459	0.0525	0.0555
12	12	0.269	0.0718	0.0718	0.0822	0.0868	50	310	0.268	0.0427	0.0427	0.0488	0.0516
13	13	0.269	0.0680	0.0680	0.0778	0.0822	51	311	0.268	0.0333	0.0333	0.0381	0.0403
14	14	0.269	0.0689	0.0689	0.0788	0.0832	52	312	0.267	0.0208	0.0208	0.0238	0.0251
15	15	0.269	0.0634	0.0634	0.0726	0.0766	53	313	0.267	0.0150	0.0150	0.0171	0.0181
16	16	0.269	0.0628	0.0628	0.0718	0.0758	54	314	0.267	0.0053	0.0053	0.0061	0.0064
17	17	0.270	0.0651	0.0651	0.0745	0.0787	55	315	0.266	0.0005	0.0005	0.0006	0.0007
18	18	0.270	0.0688	0.0688	0.0787	0.0831	56	406	0.268	0.0472	0.0472	0.0540	0.0570
19	19	0.270	0.0708	0.0708	0.0810	0.0856	57	407	0.268	0.0582	0.0582	0.0666	0.0703
20	20	0.270	0.0739	0.0739	0.0846	0.0894	58	408	0.268	0.0653	0.0653	0.0746	0.0788
21	21	0.270	0.0779	0.0779	0.0892	0.0942	59	409	0.267	0.0619	0.0619	0.0708	0.0747
22	22	0.270	0.0799	0.0799	0.0915	0.0966	60	410	0.267	0.0541	0.0541	0.0619	0.0654
23	23	0.270	0.0831	0.0831	0.0951	0.1005	61	411	0.267	0.0474	0.0474	0.0542	0.0573
24	24	0.270	0.0878	0.0878	0.1005	0.1062	62	412	0.267	0.0271	0.0271	0.0310	0.0327
25	25	0.270	0.0880	0.0880	0.1006	0.1063	63	413	0.266	0.0106	0.0106	0.0121	0.0128
26	103	0.276	0.0652	0.0652	0.0747	0.0789	64	414	0.265	-0.0105	-0.0105	-0.0120	-0.0127
27	105	0.273	0.0699	0.0699	0.0800	0.0845	65	415	0.266	0.0015	0.0015	0.0017	0.0018
28	107	0.273	0.0705	0.0705	0.0807	0.0853	66	506	0.267	0.0535	0.0535	0.0612	0.0646
29	108	0.272	0.0657	0.0657	0.0752	0.0795	67	507	0.267	0.0661	0.0661	0.0755	0.0798
30	110	0.271	0.0518	0.0518	0.0593	0.0627	68	508	0.267	0.0759	0.0759	0.0868	0.0917
31	111	0.271	0.0429	0.0429	0.0491	0.0518	69	509	0.267	0.0707	0.0707	0.0809	0.0854
32	112	0.270	0.0284	0.0284	0.0325	0.0343	70	510	0.267	0.0634	0.0634	0.0725	0.0765
33	113	0.270	0.0159	0.0159	0.0182	0.0192	71	511	0.267	0.0595	0.0595	0.0681	0.0719
34	114	0.269	0.0037	0.0037	0.0042	0.0045	72	512	0.267	0.0399	0.0399	0.0457	0.0482
35	115	0.268	-0.0001	-0.0001	-0.0001	-0.0001	73	513	0.267	0.0258	0.0258	0.0295	0.0312
36	203	0.270	0.0612	0.0612	0.0700	0.0739	74	514	0.266	0.0062	0.0062	0.0071	0.0075
37	205	0.271	0.0606	0.0606	0.0694	0.0733	75	515	0.266	-0.0031	-0.0031	-0.0035	-0.0037
38	207	0.271	0.0584	0.0584	0.0668	0.0706							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7054E C6	5.1981E C5	0.305	5.07	1087.7	0.11458E 07	0.3048	1.000	RUN NO. 43
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.1981E C5	5.1981E 05	1.000	74.51	1957.8	492.70	1.0000	1.000	

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	305.3	549.6	0.824	0.726	8.208	7.232	5.2971E-04	5.5942E-04	0.277
2	2	338.7	609.7	0.000	0.000	7.861	6.926	1.1850E-15	1.2549E-15	*******
3	3	305.8	550.4	0.784	0.691	8.203	7.228	5.0390E-04	5.3217E-04	0.272
4	4	305.8	550.5	0.782	0.689	8.203	7.228	5.0261E-04	5.3081E-04	0.268
5	5	306.0	550.7	0.773	0.681	8.202	7.227	4.9713E-04	5.2503E-04	0.259
6	6	305.9	550.6	0.754	0.665	8.202	7.227	4.8500E-04	5.1222E-04	0.248
7	7	306.0	550.8	0.724	0.638	8.201	7.226	4.6531E-04	4.9143E-04	0.223
8	8	306.3	551.3	0.679	0.598	8.199	7.224	4.3657E-04	4.6108E-04	0.209
9	9	306.3	551.4	0.631	0.556	8.198	7.224	4.0599E-04	4.2879E-04	0.174
10	10	306.4	551.5	0.600	0.529	8.197	7.223	3.8628E-04	4.0797E-04	0.156
11	11	306.5	551.7	0.579	0.510	8.196	7.222	3.7278E-04	3.9372E-04	0.155
12	12	306.7	552.0	0.589	0.519	8.194	7.220	3.7889E-04	4.0017E-04	0.149
13	13	306.9	552.5	0.557	0.491	8.191	7.218	3.5866E-04	3.7882E-04	0.145
14	14	307.2	552.9	0.564	0.497	8.189	7.216	3.6339E-04	3.8382E-04	0.139
15	15	307.2	553.0	0.519	0.458	8.188	7.215	3.3456E-04	3.5337E-04	0.152
16	16	307.4	553.3	0.514	0.453	8.187	7.214	3.3108E-04	3.4970E-04	0.168
17	17	307.6	553.7	0.533	0.470	8.185	7.212	3.4356E-04	3.6289E-04	0.177
18	18	307.8	554.1	0.563	0.496	8.182	7.210	3.6291E-04	3.8333E-04	0.206
19	19	308.2	554.7	0.579	0.510	8.179	7.207	3.7344E-04	3.9446E-04	0.230
20	20	308.3	554.9	0.605	0.533	8.177	7.205	3.8999E-04	4.1195E-04	0.251
21	21	308.5	555.2	0.637	0.562	8.175	7.204	4.1120E-04	4.3437E-04	0.261
22	22	308.4	555.1	0.654	0.576	8.176	7.204	4.2170E-04	4.4546E-04	0.261
23	23	308.5	555.2	0.680	0.599	8.176	7.204	4.3854E-04	4.6324E-04	0.273
24	24	308.6	555.4	0.718	0.633	8.174	7.203	4.6337E-04	4.8948E-04	0.286
25	25	308.0	554.5	0.719	0.634	8.180	7.208	4.6395E-04	4.9006E-04	0.283
26	103	315.4	567.8	0.528	0.466	8.103	7.140	3.4419E-04	3.6377E-04	0.550
27	105	311.7	561.0	0.569	0.501	8.142	7.174	3.6880E-04	3.8967E-04	0.241
28	107	311.2	560.2	0.575	0.506	8.147	7.178	3.7219E-04	3.9324E-04	0.247
29	108	310.5	558.9	0.536	0.472	8.154	7.185	3.4666E-04	3.6624E-04	0.146
30	110	309.5	557.1	0.423	0.373	8.164	7.194	2.7351E-04	2.8894E-04	0.100
31	111	309.1	556.4	0.350	0.309	8.169	7.198	2.2620E-04	2.3896E-04	0.179
32	112	308.2	554.8	0.232	0.205	8.178	7.206	1.4990E-04	1.5834E-04	0.401
33	113	307.6	553.6	0.130	0.115	8.185	7.212	8.3779E-05	8.8492E-05	0.548
34	114	306.4	551.5	0.030	0.027	8.197	7.223	1.9526E-05	2.0622E-05	0.629
35	115	305.3	549.5	-0.001	-0.001	8.209	7.233	-6.1341E-07	-6.4780E-07	4.735
36	203	308.5	555.2	0.500	0.441	8.176	7.204	3.2273E-04	3.4091E-04	0.160
37	205	308.8	555.9	0.495	0.437	8.172	7.200	3.1983E-04	3.3785E-04	0.166
38	207	308.7	555.6	0.477	0.420	8.173	7.202	3.0802E-04	3.2538E-04	0.161
39	208	308.3	554.9	0.455	0.401	8.177	7.205	2.9327E-04	3.0979E-04	0.064
40	210	307.6	553.7	0.371	0.327	8.185	7.212	2.3886E-04	2.5230E-04	-0.088
41	211	306.1	551.0	0.339	0.298	8.200	7.226	2.1772E-04	2.2994E-04	0.067
42	212	305.8	550.4	0.249	0.220	8.204	7.229	1.6022E-04	1.6921E-04	0.252
43	213	338.7	609.7	0.000	0.000	7.860	6.926	8.7385E-16	9.2534E-16	*******
44	214	338.7	609.6	0.000	0.000	7.861	6.927	2.6730E-07	2.8305E-07	1.255
45	215	303.8	546.8	0.001	0.001	8.224	7.247	9.1871E-07	9.7011E-07	1.974
46	306	338.7	609.7	0.000	0.000	7.860	6.926	2.0559E-07	2.1770E-07	1.428
47	307	306.6	552.0	0.405	0.357	8.195	7.220	2.6054E-04	2.7517E-04	0.074
48	308	306.3	551.4	0.420	0.370	8.198	7.223	2.7051E-04	2.8570E-04	-0.018
49	309	306.0	550.8	0.377	0.332	8.201	7.226	2.4219E-04	2.5579E-04	-0.110
50	310	305.9	550.6	0.350	0.309	8.203	7.228	2.2515E-04	2.3778E-04	-0.069
51	311	305.5	549.9	0.274	0.241	8.206	7.231	1.7586E-04	1.8573E-04	-0.028
52	312	304.8	548.6	0.171	0.151	8.214	7.238	1.0980E-04	1.1595E-04	0.225
53	313	304.5	548.1	0.123	0.108	8.217	7.240	7.8854E-05	8.3270E-05	0.375
54	314	304.5	548.1	0.044	0.039	8.217	7.240	2.8128E-05	2.9703E-05	0.830
55	315	304.0	547.2	0.004	0.004	8.222	7.245	2.8579E-06	3.0178E-06	3.041
56	406	305.7	550.2	0.387	0.341	8.205	7.229	2.4903E-04	2.6300E-04	-0.005
57	407	305.4	549.7	0.478	0.421	8.208	7.232	3.0705E-04	3.2427E-04	0.102
58	408	305.2	549.3	0.536	0.472	8.210	7.234	3.4412E-04	3.6341E-04	0.076
59	409	305.0	549.0	0.508	0.448	8.211	7.235	3.2635E-04	3.4464E-04	0.031
60	410	305.0	549.0	0.444	0.392	8.212	7.236	2.8542E-04	3.0142E-04	0.064
61	411	304.7	548.4	0.390	0.343	8.215	7.239	2.5015E-04	2.6417E-04	0.173
62	412	304.2	547.6	0.223	0.196	8.220	7.243	1.4294E-04	1.5094E-04	0.388
63	413	303.6	546.4	0.087	0.077	8.227	7.249	5.5723E-05	5.8839E-05	0.716
64	414	302.4	544.4	-0.087	-0.076	8.239	7.259	-5.5394E-05	-5.8487E-05	0.187
65	415	303.5	546.2	0.012	0.011	8.228	7.250	8.0083E-06	8.4562E-06	1.777
66	506	305.0	549.1	0.439	0.387	8.211	7.235	2.8214E-04	2.9795E-04	0.057
67	507	305.1	549.2	0.542	0.478	8.211	7.235	3.4836E-04	3.6789E-04	0.150
68	508	305.0	549.0	0.623	0.549	8.212	7.236	4.0034E-04	4.2278E-04	0.164
69	509	305.0	548.9	0.581	0.512	8.212	7.236	3.7292E-04	3.9382E-04	0.111
70	510	304.7	548.4	0.521	0.459	8.215	7.238	3.3416E-04	3.5288E-04	0.112
71	511	305.0	549.0	0.489	0.431	8.212	7.236	3.1388E-04	3.3147E-04	0.171
72	512	304.7	548.5	0.328	0.289	8.215	7.238	2.1067E-04	2.2247E-04	0.280
73	513	304.5	548.0	0.212	0.187	8.217	7.241	1.3610E-04	1.4372E-04	0.449
74	514	303.9	547.1	0.051	0.045	8.223	7.245	3.2816E-05	3.4652E-05	0.690
75	515	303.4	546.1	-0.026	-0.023	8.229	7.251	-1.6371E-05	-1.7287E-05	0.089

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3511E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.854	3.973	3.617
PT2/PT1	5.172E-02	5.333E-02	4.855E-02
TEMP(DEG R)	1961.7	1994.6	2011.6
TT2/TT1	1.0020	1.0188	1.0275

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 44 FRAME 26 TO 52 CONSTANT SET 311

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSF)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.4989E 06	143.69	2088.65	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	143.689	2088.264	0.150	0.163	724.940	-0.280	17.6052
0.070	143.506	2088.521	0.147	0.166	724.940	-0.306	17.6092
0.140	143.872	2088.521	0.147	0.249	724.940	-0.293	17.6092
0.210	143.689	2089.032	0.153	0.775	733.353	-0.293	17.6132
0.280	143.872	2088.776	0.211	2.109	831.451	-0.280	17.5890
0.350	143.872	2088.135	0.835	3.716	1355.906	-0.280	17.5931
0.420	143.689	2088.393	2.828	5.186	1797.282	-0.319	17.6052
0.490	143.872	2088.393	5.051	6.665	1955.752	-0.306	17.6132
0.560	143.872	2088.905	6.441	7.599	2014.861	-0.306	17.6132
0.630	143.872	2088.776	7.384	7.910	2047.390	-0.293	17.6092
0.700	143.872	2088.134	7.923	7.807	2051.279	-0.306	25.5019
0.770	143.689	2088.006	8.143	7.524	2055.812	-0.319	34.8593
0.840	143.872	2088.263	8.140	7.304	2089.355	-0.306	34.9198
0.910	143.689	2088.646	8.084	7.276	2108.604	-0.306	34.9279
0.980	143.872	2088.263	8.039	7.385	2105.401	-0.293	34.9279
1.050	143.872	2087.493	8.016	7.501	2104.760	-0.293	34.9279
1.120	143.689	2087.878	8.005	7.559	2088.140	-0.306	34.9279
1.190	143.872	2088.005	7.989	7.654	2092.568	-0.306	34.9306
1.260	143.872	2088.263	7.989	7.696	2097.705	-0.293	34.9319
1.330	143.872	2088.135	8.000	7.738	2100.913	-0.293	34.9238
1.400	143.872	2087.362	8.008	7.763	2118.201	-0.293	34.9279
1.470	143.689	2087.622	8.016	7.793	2132.891	-0.306	34.9279
1.540	143.872	2087.749	8.029	7.829	2127.779	-0.306	34.9319
1.610	143.872	2087.877	8.016	7.863	2130.331	-0.306	34.9319
1.680	143.872	2088.135	8.013	7.863	2136.703	-0.293	34.9279
1.750	143.872	2087.363	8.005	7.863	2124.589	-0.293	34.9238
1.820	143.689	2087.110	7.957	7.891	2118.201	-0.306	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	2.9490E 06	8.9885E 05	0.305	9.77	1160.4	0.12300E 07	0.304E	1.CCC	RUN NO.	44
MACH	RE/FT	REL	LENGTH(FT)	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	8.9885E 05	8.9885E 05	1.000	143.69	2088.6	528.92	1.0000	1.CCC		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.252	0.2853	0.2853	0.3253	0.3431	39	208	0.255	0.0438	0.0438	0.0459	0.0527
2	2	0.277	0.0000	0.0000	0.0000	0.0000	40	210	0.254	0.0339	0.0339	0.0387	0.0408
3	3	0.253	0.2828	0.2828	0.3225	0.3402	41	211	0.252	0.0352	0.0352	0.0401	0.0423
4	4	0.253	0.2856	0.2856	0.3257	0.3436	42	212	0.252	0.0248	0.0248	0.0283	0.0298
5	5	0.253	0.2779	0.2779	0.3169	0.3343	43	213	0.277	0.0000	0.0000	0.0000	0.0000
6	6	0.253	0.2707	0.2707	0.3087	0.3256	44	214	0.277	0.0000	0.0000	0.0000	0.0000
7	7	0.253	0.2495	0.2495	0.2845	0.3001	45	215	0.249	-0.0054	-0.0054	-0.0062	-0.0065
8	8	0.253	0.2126	0.2126	0.2425	0.2558	46	306	0.277	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.253	0.1755	0.1755	0.2002	0.2112	47	307	0.253	0.0356	0.0356	0.0406	0.0428
10	10	0.253	0.1427	0.1427	0.1627	0.1716	48	308	0.253	0.0557	0.0557	0.0635	0.0670
11	11	0.253	0.1134	0.1134	0.1294	0.1365	49	309	0.252	0.0581	0.0581	0.0663	0.0699
12	12	0.254	0.1015	0.1015	0.1158	0.1222	50	310	0.252	0.0557	0.0557	0.0635	0.0670
13	13	0.254	0.0802	0.0802	0.0915	0.0965	51	311	0.252	0.0438	0.0438	0.0499	0.0526
14	14	0.254	0.0738	0.0738	0.0842	0.0888	52	312	0.251	0.0256	0.0256	0.0292	0.0308
15	15	0.254	0.0646	0.0646	0.0737	0.0777	53	313	0.251	0.0359	0.0359	0.0410	0.0432
16	16	0.254	0.0626	0.0626	0.0714	0.0753	54	314	0.250	0.0145	0.0145	0.0165	0.0174
17	17	0.254	0.0648	0.0648	0.0739	0.0779	55	315	0.249	0.0023	0.0023	0.0026	0.0027
18	18	0.255	0.0669	0.0669	0.0763	0.0805	56	406	0.252	0.1517	0.1517	0.1730	0.1825
19	19	0.255	0.0661	0.0661	0.0755	0.0796	57	407	0.252	0.1697	0.1697	0.1935	0.2040
20	20	0.255	0.0713	0.0713	0.0813	0.0858	58	408	0.252	0.1748	0.1748	0.1993	0.2102
21	21	0.255	0.0711	0.0711	0.0811	0.0856	59	409	0.252	0.1654	0.1654	0.1886	0.1989
22	22	0.255	0.0743	0.0743	0.0847	0.0894	60	410	0.251	0.1491	0.1491	0.1700	0.1793
23	23	0.255	0.0773	0.0773	0.0881	0.0930	61	411	0.251	0.1331	0.1331	0.1517	0.1600
24	24	0.255	0.0802	0.0802	0.0915	0.0965	62	412	0.251	0.0931	0.0931	0.1061	0.1119
25	25	0.254	0.0781	0.0781	0.0891	0.0940	63	413	0.250	0.0578	0.0578	0.0658	0.0694
26	103	0.257	0.0635	0.0635	0.0725	0.0765	64	414	0.249	0.0095	0.0095	0.0108	0.0114
27	105	0.258	0.0622	0.0622	0.0710	0.0749	65	415	0.249	0.0149	0.0149	0.0170	0.0179
28	107	0.258	0.0644	0.0644	0.0735	0.0776	66	506	0.252	0.2247	0.2247	0.2563	0.2702
29	108	0.257	0.0653	0.0653	0.0745	0.0786	67	507	0.252	0.2325	0.2325	0.2651	0.2796
30	110	0.256	0.0571	0.0571	0.0652	0.0688	68	508	0.251	0.2379	0.2379	0.2712	0.2861
31	111	0.256	0.0495	0.0495	0.0565	0.0596	69	509	0.251	0.2208	0.2208	0.2517	0.2655
32	112	0.255	0.0359	0.0359	0.0410	0.0432	70	510	0.251	0.2070	0.2070	0.2360	0.2488
33	113	0.254	0.0251	0.0251	0.0286	0.0302	71	511	0.251	0.1979	0.1979	0.2256	0.2380
34	114	0.252	0.0073	0.0073	0.0084	0.0088	72	512	0.251	0.1639	0.1639	0.1869	0.1971
35	115	0.251	-0.0007	-0.0007	-0.0008	-0.0008	73	513	0.250	0.1287	0.1287	0.1467	0.1547
36	203	0.255	0.0529	0.0529	0.0603	0.0636	74	514	0.250	0.0626	0.0626	0.0713	0.0752
37	205	0.255	0.0502	0.0502	0.0573	0.0604	75	515	0.249	0.0220	0.0220	0.0250	0.0264
38	207	0.255	0.0478	0.0478	0.0546	0.0576							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	R(L	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAW/PT	TEST NO.	182
5.10	2.94932E 06	8.98852E 05	0.305	9.77	1160.4	0.12306E 07	0.3048	1.CCC	RUN NO.	44
MACH	RE/FT	R(L	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	PAW/PT		
5.10	8.99032E 05	8.98852E 05	1.CCC	143.69	2088.6	528.92	1.CCCC	1.CCC		

CHAN	T/C	TS(DEG K)	TS(DEG R)	QS(W/CM2)	QS(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(C.874)	TIME(SEC)
1	1	308.1	554.6	3.581	3.138	12.482	10.939	1.1330E-03	1.1949E-03	C.360
2	2	308.7	555.7	0.000	0.000	12.051	10.619	8.5266E-16	9.0119E-16	*******
3	3	309.6	557.3	3.328	3.109	12.474	10.991	1.1232E-03	1.1847E-03	0.379
4	4	309.4	557.4	3.563	3.139	12.473	10.991	1.1344E-03	1.1965E-03	C.382
5	5	309.4	557.8	3.466	3.094	12.470	10.988	1.1038E-03	1.1642E-03	C.378
6	6	309.7	557.5	3.377	2.975	12.472	10.990	1.0753E-03	1.1341E-03	0.375
7	7	309.4	557.7	3.111	2.742	12.471	10.989	9.9054E-04	1.0452E-03	C.376
8	8	310.2	558.3	2.651	2.336	12.466	10.984	8.4456E-04	8.9082E-04	C.364
9	9	310.2	558.4	2.168	1.910	12.465	10.984	6.9720E-04	7.3539E-04	C.335
10	10	310.2	558.4	1.778	1.567	12.465	10.983	5.6661E-04	5.9765E-04	C.312
11	11	310.4	558.8	1.414	1.246	12.462	10.981	4.5066E-04	4.7529E-04	C.279
12	12	310.6	559.1	1.265	1.115	12.460	10.979	4.0334E-04	4.2545E-04	C.266
13	13	311.0	559.9	0.999	0.880	12.493	10.973	3.1852E-04	3.3599E-04	C.197
14	14	311.3	560.3	0.919	0.810	12.450	10.970	2.9319E-04	3.0928E-04	C.135
15	15	311.3	560.3	0.804	0.709	12.450	10.970	2.5643E-04	2.7071E-04	C.112
16	16	311.4	560.5	0.779	0.687	12.448	10.969	2.4864E-04	2.6228E-04	C.106
17	17	311.6	560.9	0.806	0.710	12.445	10.966	2.5724E-04	2.7135E-04	C.131
18	18	311.9	561.4	0.832	0.733	12.441	10.962	2.6574E-04	2.8033E-04	C.150
19	19	312.1	561.7	0.823	0.725	12.439	10.960	2.6274E-04	2.7717E-04	C.137
20	20	312.2	561.9	0.887	0.781	12.437	10.959	2.8321E-04	2.9876E-04	C.170
21	21	312.5	562.6	0.884	0.779	12.432	10.954	2.8238E-04	2.9790E-04	C.143
22	22	312.3	562.1	0.923	0.814	12.435	10.957	2.9498E-04	3.1119E-04	C.156
23	23	312.2	562.0	0.961	0.846	12.436	10.958	3.0689E-04	3.2375E-04	C.172
24	24	312.3	562.1	0.967	0.879	12.435	10.957	3.1859E-04	3.3609E-04	C.179
25	25	311.4	560.5	0.972	0.857	12.449	10.969	3.1027E-04	3.2729E-04	C.161
26	103	315.3	567.6	0.787	0.693	12.391	10.918	2.5239E-04	2.6631E-04	C.130
27	105	316.4	569.5	0.770	0.678	12.375	10.904	2.4723E-04	2.6088E-04	C.128
28	107	315.9	568.5	0.798	0.703	12.383	10.911	2.5593E-04	2.7005E-04	C.155
29	108	314.8	566.7	0.809	0.713	12.398	10.924	2.5942E-04	2.7371E-04	C.076
30	110	313.5	564.4	0.709	0.625	12.417	10.941	2.2695E-04	2.3944E-04	-C.047
31	111	312.9	563.2	0.615	0.542	12.426	10.949	1.9659E-04	2.0740E-04	-C.033
32	112	311.7	561.0	0.447	0.394	12.444	10.965	1.4271E-04	1.5055E-04	C.075
33	113	310.9	559.6	0.312	0.275	12.456	10.975	9.9628E-05	1.0509E-04	0.211
34	114	309.2	556.6	0.092	0.081	12.480	10.997	2.9174E-05	3.0770E-05	C.089
35	115	307.6	553.7	-0.009	-0.008	12.504	11.018	-2.7224E-06	-2.8710E-06	2.603
36	203	312.3	562.1	0.657	0.579	12.436	10.957	2.1000E-04	2.2153E-04	C.026
37	205	312.9	563.2	0.624	0.549	12.427	10.950	1.9937E-04	2.1033E-04	C.008
38	207	312.7	562.8	0.594	0.524	12.430	10.952	1.8996E-04	2.0040E-04	-C.032
39	208	312.0	561.6	0.544	0.480	12.439	10.961	1.7380E-04	1.8335E-04	-C.206
40	210	311.0	559.8	0.422	0.372	12.454	10.974	1.3475E-04	1.4213E-04	-C.478
41	211	308.7	555.7	0.439	0.387	12.487	11.003	1.3962E-04	1.4725E-04	-C.172
42	212	308.3	554.9	0.310	0.273	12.494	11.009	9.8913E-05	1.0390E-04	-C.024
43	213	338.7	609.7	0.000	0.000	12.051	10.619	9.8810E-16	1.0391E-15	*******
44	214	338.7	609.6	0.000	0.000	12.052	10.619	5.2342E-08	5.5321E-08	1.176
45	215	305.4	549.6	-0.068	-0.060	12.536	11.046	-2.1548E-05	-2.2721E-05	C.698
46	306	338.7	609.8	-0.000	-0.000	12.051	10.619	-1.0098E-07	-1.0673E-07	1.527
47	307	310.4	558.7	0.444	0.391	12.463	10.982	1.4143E-04	1.4918E-04	-C.336
48	308	309.7	557.5	0.395	0.348	12.473	10.990	2.2138E-04	2.3343E-04	-C.172
49	309	309.2	556.5	0.725	0.639	12.481	10.997	2.3680E-04	2.4343E-04	-C.207
50	310	308.9	556.0	0.695	0.612	12.485	11.001	2.2110E-04	2.3319E-04	-C.178
51	311	308.2	554.7	0.547	0.482	12.495	11.010	1.7382E-04	1.8331E-04	-C.149
52	312	307.1	552.8	0.321	0.283	12.511	11.023	1.0183E-04	1.0738E-04	-C.052
53	313	306.9	552.4	0.450	0.396	12.514	11.026	1.4267E-04	1.5045E-04	C.443
54	314	306.5	551.7	0.181	0.160	12.519	11.031	5.7452E-05	6.0626E-05	C.486
55	315	305.5	550.0	0.028	0.025	12.534	11.044	8.9887E-06	9.4781E-06	1.081
56	406	309.1	556.3	1.894	1.669	12.482	10.998	6.0266E-04	6.3562E-04	C.300
57	407	308.6	555.6	2.114	1.867	12.488	11.004	6.7380E-04	7.1063E-04	C.305
58	408	308.3	554.9	2.184	1.924	12.494	11.009	6.9426E-04	7.3219E-04	C.281
59	409	308.0	554.4	2.067	1.821	12.498	11.012	6.5681E-04	6.9269E-04	C.231
60	410	307.8	554.1	1.969	1.043	12.500	11.014	5.9223E-04	6.2457E-04	C.225
61	411	307.4	553.4	1.664	1.466	12.506	11.020	5.2837E-04	5.5721E-04	C.254
62	412	306.8	552.2	1.165	1.026	12.516	11.028	3.6982E-04	3.8978E-04	C.387
63	413	306.1	551.0	0.723	0.637	12.526	11.037	2.2935E-04	2.4185E-04	C.488
64	414	304.7	548.5	0.119	0.105	12.546	11.055	3.7559E-05	3.9601E-05	C.821
65	415	304.5	548.0	0.187	0.165	12.549	11.058	5.9289E-05	6.2513E-05	C.616
66	506	308.1	554.6	2.868	2.475	12.496	11.011	8.4257E-04	9.4132E-04	0.335
67	507	308.1	554.6	2.903	2.560	12.493	11.008	9.2345E-04	9.7391E-04	C.325
68	508	308.0	554.3	2.873	2.620	12.495	11.013	9.4480E-04	9.9640E-04	C.312
69	509	307.8	554.0	2.760	2.432	12.501	11.015	8.7883E-04	9.2471E-04	C.248
70	510	307.5	553.4	2.588	2.281	12.514	11.019	8.2156E-04	8.6682E-04	C.239
71	511	307.7	553.9	2.474	2.180	12.501	11.015	7.8559E-04	8.2891E-04	C.247
72	512	307.1	552.8	2.651	1.807	12.510	11.023	6.5692E-04	6.8644E-04	C.327
73	513	306.7	552.0	1.911	1.619	12.517	11.030	5.1096E-04	5.3882E-04	C.428
74	514	305.8	550.4	0.794	0.691	12.530	11.041	2.4851E-04	2.6204E-04	C.463
75	515	304.2	548.7	0.276	0.243	12.544	11.053	8.7250E-05	9.1696E-05	C.582

FREE-STREAM DENSITY-VELOCITY PRODUCT = 3.4821E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIFA *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.103	7.557	7.891
PT2/PT1	5.639E-02	5.565E-02	5.491E-02
TEMPDEG R)	2129.7	2118.2	2175.4
TT2/TT1	1.0147	1.0142	1.0415

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 45 FRAME 25 TO 52 CONSTANT SET 311

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2005E 07	303.48	2022.41	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.301	2023.185	0.282	0.373	758.282	-0.292	17.6056
0.070	303.301	2022.402	0.279	0.387	756.451	-0.292	17.6016
0.140	303.301	2022.402	0.277	0.512	760.111	-0.305	17.6056
0.210	303.301	2022.535	0.287	1.524	777.369	-0.318	17.6056
0.280	303.118	2023.056	0.377	4.512	887.141	-0.318	17.6016
0.350	303.301	2023.445	1.780	7.801	1467.609	-0.305	17.6016
0.420	303.484	2022.272	5.980	10.600	1881.844	-0.305	17.5935
0.490	303.301	2022.535	10.638	13.421	2005.714	-0.305	17.6016
0.560	303.301	2022.536	13.390	15.170	2045.444	-0.331	17.6016
0.630	303.484	2023.056	15.005	15.726	2034.405	-0.318	17.5976
0.700	303.301	2023.185	15.973	15.514	2064.865	-0.305	17.6016
0.770	303.484	2022.666	16.275	15.028	2076.481	-0.318	34.8926
0.840	303.301	2022.535	16.196	14.642	2079.703	-0.305	34.9168
0.910	303.484	2022.406	16.047	14.580	2095.138	-0.331	34.9249
0.980	303.301	2023.056	15.944	14.756	2105.401	-0.318	34.9249
1.050	303.484	2023.316	15.851	14.997	2109.244	-0.305	34.9249
1.120	303.484	2022.925	15.889	15.156	2116.283	-0.305	34.9168
1.190	303.301	2022.666	15.905	15.270	2100.913	-0.318	34.9168
1.260	303.484	2022.405	15.931	15.364	2095.780	-0.318	34.9208
1.330	303.301	2022.795	15.942	15.450	2102.196	-0.318	34.9249
1.400	303.484	2023.055	15.947	15.526	2105.401	-0.318	34.9249
1.470	303.484	2022.665	15.968	15.576	2089.355	-0.305	34.9168
1.540	303.484	2021.752	15.971	15.617	2077.770	-0.318	34.9208
1.610	303.484	2021.491	15.976	15.673	2088.069	-0.331	34.9289
1.680	303.484	2021.621	15.968	15.712	2092.568	-0.331	34.9249
1.750	303.301	2021.621	15.955	15.742	2118.201	-0.331	34.9208
1.820	303.484	2021.361	15.942	15.751	2107.964	-0.305	34.9168
1.890	303.301	2021.101	15.926	15.751	2105.401	-0.318	34.9168

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.5775E 06	2.0048E 06	0.305	20.65	1123.6	0.11872E 07	0.3048	1.000	RUN NO.	45
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.0048E 06	1.000	303.48	2022.4	510.53	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.264	0.3051	0.3051	0.3487	0.3682	39	208	0.266	0.0884	0.0884	0.1010	0.1067
2	2	0.287	0.0000	0.0000	0.0000	0.0000	40	210	0.264	0.0918	0.0918	0.1049	0.1108
3	3	0.265	0.3033	0.3033	0.3467	0.3660	41	211	0.261	0.0954	0.0954	0.1090	0.1150
4	4	0.265	0.3142	0.3142	0.3592	0.3793	42	212	0.260	0.0804	0.0804	0.0918	0.0969
5	5	0.265	0.3137	0.3137	0.3586	0.3786	43	213	0.287	0.0000	0.0000	0.0000	0.0000
6	6	0.265	0.3188	0.3188	0.3644	0.3847	44	214	0.287	-0.0000	-0.0000	-0.0000	-0.0000
7	7	0.265	0.3317	0.3317	0.3792	0.4004	45	215	0.256	0.0017	0.0017	0.0020	0.0021
8	8	0.265	0.3384	0.3384	0.3868	0.4084	46	306	0.287	0.0000	0.0000	0.0000	0.0000
9	9	0.265	0.3483	0.3483	0.3981	0.4204	47	307	0.264	0.2866	0.2866	0.3275	0.3458
10	10	0.265	0.3589	0.3589	0.4103	0.4332	48	308	0.263	0.2798	0.2798	0.3198	0.3376
11	11	0.265	0.3565	0.3565	0.4075	0.4302	49	309	0.263	0.3419	0.3419	0.3907	0.4124
12	12	0.265	0.3666	0.3666	0.4191	0.4425	50	310	0.262	0.2405	0.2405	0.2747	0.2900
13	13	0.265	0.3479	0.3479	0.3976	0.4199	51	311	0.261	0.2102	0.2102	0.2402	0.2535
14	14	0.265	0.3407	0.3407	0.3895	0.4112	52	312	0.260	0.1540	0.1540	0.1759	0.1856
15	15	0.265	0.2809	0.2809	0.3211	0.3390	53	313	0.259	0.1376	0.1376	0.1571	0.1658
16	16	0.265	0.2249	0.2249	0.2571	0.2714	54	314	0.258	0.0746	0.0746	0.0852	0.0899
17	17	0.265	0.1639	0.1639	0.1874	0.1978	55	315	0.257	0.0293	0.0293	0.0334	0.0353
18	18	0.266	0.1129	0.1129	0.1291	0.1363	56	406	0.264	0.2883	0.2883	0.3295	0.3479
19	19	0.266	0.0825	0.0825	0.0943	0.0996	57	407	0.263	0.2878	0.2878	0.3289	0.3472
20	20	0.266	0.0803	0.0803	0.0918	0.0969	58	408	0.263	0.2702	0.2702	0.3087	0.3259
21	21	0.266	0.0732	0.0732	0.0837	0.0884	59	409	0.263	0.2514	0.2514	0.2872	0.3031
22	22	0.266	0.0755	0.0755	0.0864	0.0912	60	410	0.262	0.2251	0.2251	0.2572	0.2715
23	23	0.266	0.0783	0.0783	0.0895	0.0945	61	411	0.261	0.2063	0.2063	0.2357	0.2488
24	24	0.266	0.0803	0.0803	0.0919	0.0970	62	412	0.260	0.1518	0.1518	0.1734	0.1830
25	25	0.265	0.0736	0.0736	0.0841	0.0888	63	413	0.260	0.1049	0.1049	0.1197	0.1264
26	103	0.270	0.0581	0.0581	0.0665	0.0702	64	414	0.258	0.0365	0.0365	0.0416	0.0439
27	105	0.271	0.0561	0.0561	0.0642	0.0678	65	415	0.257	0.0313	0.0313	0.0357	0.0377
28	107	0.270	0.0621	0.0621	0.0711	0.0751	66	506	0.263	0.2709	0.2709	0.3095	0.3267
29	108	0.269	0.0713	0.0713	0.0815	0.0861	67	507	0.264	0.2667	0.2667	0.3048	0.3217
30	110	0.267	0.0742	0.0742	0.0849	0.0896	68	508	0.263	0.2600	0.2600	0.2971	0.3136
31	111	0.266	0.0687	0.0687	0.0785	0.0829	69	509	0.263	0.2357	0.2357	0.2693	0.2843
32	112	0.264	0.0625	0.0625	0.0714	0.0754	70	510	0.262	0.2177	0.2177	0.2488	0.2626
33	113	0.263	0.0613	0.0613	0.0701	0.0740	71	511	0.262	0.2049	0.2049	0.2341	0.2471
34	114	0.261	0.0350	0.0350	0.0400	0.0422	72	512	0.262	0.1681	0.1681	0.1920	0.2027
35	115	0.259	0.0104	0.0104	0.0119	0.0126	73	513	0.261	0.1290	0.1290	0.1473	0.1555
36	203	0.266	0.0471	0.0471	0.0538	0.0568	74	514	0.259	0.0624	0.0624	0.0712	0.0752
37	205	0.267	0.0492	0.0492	0.0562	0.0594	75	515	0.258	0.0179	0.0179	0.0204	0.0215
38	207	0.267	0.0750	0.0750	0.0857	0.0905							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.5775E C6	2.0048E C6	0.305	20.65	1123.6	0.1187ZE 07	0.3048	1.000	RUN NO.	45
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.0048E C6	2.0048E 06	1.000	303.48	2022.4	510.53	1.0000	1.000		

CHAN	T/C	Tw(DEG K)	TW(DEG R)	C(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	312.6	562.7	5.256	4.632	17.229	15.181	8.1562E-04	8.6112E-04	0.319
2	2	338.7	609.7	0.000	0.000	16.679	14.696	3.8633E-16	4.0869E-16	*******
3	3	313.2	563.8	5.221	4.601	17.215	15.169	8.1084E-04	8.5611E-04	0.335
4	4	313.2	563.8	5.410	4.767	17.216	15.169	8.4014E-04	8.8704E-04	0.340
5	5	313.4	564.0	5.400	4.758	17.213	15.167	8.3875E-04	8.8559E-04	0.331
6	6	313.1	563.6	5.488	4.836	17.218	15.171	8.5220E-04	8.9977E-04	0.334
7	7	313.2	563.7	5.711	5.033	17.217	15.171	8.8688E-04	9.3639E-04	0.344
8	8	313.3	563.9	5.826	5.133	17.214	15.168	9.0475E-04	9.5527E-04	0.354
9	9	313.2	563.7	5.997	5.284	17.217	15.170	9.3120E-04	9.8318E-04	0.359
10	10	313.1	563.6	6.180	5.445	17.218	15.172	9.5957E-04	1.0131E-03	0.365
11	11	313.0	563.4	6.138	5.409	17.220	15.173	9.5301E-04	1.0062E-03	0.362
12	12	313.1	563.6	6.313	5.562	17.218	15.171	9.8020E-04	1.0349E-03	0.355
13	13	313.5	564.3	5.987	5.275	17.210	15.164	9.3002E-04	9.8196E-04	0.333
14	14	313.6	564.5	5.863	5.166	17.208	15.162	9.1089E-04	9.6177E-04	0.307
15	15	313.4	564.2	4.834	4.259	17.211	15.165	7.5090E-04	7.9283E-04	0.282
16	16	313.5	564.3	3.870	3.410	17.210	15.164	6.0125E-04	6.3483E-04	0.246
17	17	313.6	564.4	2.821	2.485	17.208	15.163	4.3821E-04	4.6269E-04	0.173
18	18	313.9	565.1	1.943	1.712	17.201	15.156	3.0195E-04	3.1883E-04	0.100
19	19	314.1	565.4	1.419	1.250	17.197	15.153	2.2055E-04	2.3288E-04	0.067
20	20	314.2	565.6	1.381	1.217	17.195	15.151	2.1471E-04	2.2671E-04	0.114
21	21	314.7	566.4	1.259	1.109	17.185	15.142	1.9585E-04	2.0681E-04	0.049
22	22	314.5	566.1	1.298	1.144	17.188	15.145	2.0197E-04	2.1327E-04	0.077
23	23	314.6	566.3	1.346	1.186	17.186	15.143	2.0936E-04	2.2107E-04	0.094
24	24	314.8	566.6	1.381	1.216	17.183	15.141	2.1483E-04	2.2685E-04	0.094
25	25	313.7	564.6	1.266	1.116	17.206	15.161	1.9674E-04	2.0773E-04	0.048
26	103	318.7	573.7	0.993	0.875	17.100	15.067	1.5536E-04	1.6410E-04	-0.027
27	105	320.3	576.6	0.957	0.843	17.066	15.037	1.5004E-04	1.5850E-04	-0.043
28	107	319.3	574.8	1.061	0.935	17.086	15.056	1.6615E-04	1.7550E-04	0.028
29	108	317.6	571.7	1.220	1.075	17.123	15.087	1.9059E-04	2.0130E-04	-0.024
30	110	315.5	568.0	1.274	1.122	17.167	15.126	1.9844E-04	2.0955E-04	-0.187
31	111	314.5	566.1	1.181	1.040	17.188	15.145	1.8366E-04	1.9394E-04	-0.231
32	112	312.5	562.5	1.077	0.949	17.231	15.183	1.6705E-04	1.7637E-04	-0.200
33	113	311.3	560.3	1.058	0.932	17.257	15.206	1.6392E-04	1.7305E-04	-0.018
34	114	308.7	555.7	0.606	0.534	17.310	15.253	9.3540E-05	9.8730E-05	-0.084
35	115	306.4	551.5	0.181	0.160	17.360	15.297	2.7877E-05	2.9419E-05	-0.552
36	203	314.8	566.6	0.809	0.712	17.183	15.140	1.2582E-04	1.3286E-04	-0.185
37	205	315.8	568.4	0.844	0.743	17.162	15.122	1.3145E-04	1.3881E-04	-0.184
38	207	315.1	567.2	1.288	1.135	17.176	15.134	2.0046E-04	2.1168E-04	-0.124
39	208	314.0	565.2	1.520	1.339	17.200	15.155	2.3625E-04	2.4945E-04	-0.227
40	210	312.2	562.0	1.583	1.395	17.237	15.188	2.4546E-04	2.5914E-04	-0.317
41	211	308.6	555.4	1.652	1.456	17.314	15.256	2.5500E-04	2.6914E-04	-0.177
42	212	307.8	554.1	1.393	1.227	17.330	15.270	2.1479E-04	2.2670E-04	-0.013
43	213	338.7	609.7	0.000	0.000	16.678	14.696	1.5551E-16	1.6451E-16	*******
44	214	338.7	609.6	-0.000	-0.000	16.680	14.697	-6.3773E-08	-6.7464E-08	1.154
45	215	303.1	545.6	0.030	0.026	17.429	15.357	4.5657E-06	4.8171E-06	-1.982
46	306	338.7	609.7	0.000	0.000	16.678	14.696	7.3527E-08	7.7783E-08	1.184
47	307	312.4	562.3	4.938	4.351	17.233	15.184	7.6605E-04	8.0877E-04	0.272
48	308	311.4	560.4	4.828	4.255	17.255	15.204	7.4801E-04	7.8966E-04	0.226
49	309	310.8	559.5	5.904	5.202	17.266	15.213	9.1398E-04	9.6483E-04	0.666
50	310	309.9	557.8	4.157	3.663	17.286	15.231	6.4272E-04	6.7844E-04	0.202
51	311	309.0	556.1	3.638	3.206	17.306	15.249	5.6186E-04	5.9305E-04	0.209
52	312	307.2	552.9	2.671	2.354	17.344	15.282	4.1153E-04	4.3432E-04	0.287
53	313	306.0	550.8	2.390	2.106	17.368	15.304	3.6772E-04	3.8804E-04	0.383
54	314	305.5	549.9	1.297	1.143	17.379	15.313	1.9940E-04	2.1041E-04	0.393
55	315	304.1	547.4	0.510	0.449	17.408	15.339	7.8259E-05	8.2573E-05	0.377
56	406	312.1	561.7	4.970	4.380	17.240	15.190	7.7072E-04	8.1368E-04	0.279
57	407	311.5	560.6	4.966	4.375	17.253	15.202	7.6935E-04	8.1219E-04	0.273
58	408	310.7	559.2	4.666	4.111	17.269	15.216	7.2217E-04	7.6234E-04	0.238
59	409	310.1	558.2	4.344	3.827	17.281	15.227	6.7180E-04	7.0915E-04	0.205
60	410	309.8	557.7	3.892	3.430	17.287	15.233	6.0174E-04	6.3518E-04	0.197
61	411	309.1	556.4	3.570	3.145	17.303	15.246	5.5137E-04	5.8198E-04	0.235
62	412	307.9	554.3	2.631	2.318	17.328	15.268	4.0576E-04	4.2825E-04	0.339
63	413	306.9	552.4	1.819	1.603	17.350	15.287	2.8021E-04	2.9572E-04	0.425
64	414	304.8	548.6	0.634	0.559	17.394	15.326	9.7397E-05	1.0277E-04	0.410
65	415	303.9	547.1	0.545	0.480	17.412	15.343	8.3547E-05	8.8152E-05	0.421
66	506	311.3	560.4	4.674	4.118	17.256	15.205	7.2400E-04	7.6432E-04	0.271
67	507	311.5	560.7	4.601	4.054	17.252	15.201	7.1288E-04	7.5258E-04	0.262
68	508	310.7	559.3	4.489	3.956	17.268	15.215	6.9489E-04	7.3356E-04	0.228
69	509	310.5	558.9	4.071	3.587	17.274	15.220	6.2999E-04	6.6502E-04	0.177
70	510	310.0	557.9	3.764	3.316	17.284	15.230	5.8197E-04	6.1431E-04	0.176
71	511	310.1	558.1	3.541	3.120	17.282	15.228	5.4755E-04	5.7799E-04	0.182
72	512	309.2	556.6	2.908	2.563	17.301	15.244	4.4928E-04	4.7422E-04	0.261
73	513	308.2	554.8	2.234	1.968	17.321	15.262	3.4462E-04	3.6373E-04	0.350
74	514	306.5	551.7	1.083	0.954	17.358	15.295	1.6668E-04	1.7590E-04	0.370
75	515	305.1	549.2	0.311	0.274	17.387	15.320	4.7758E-05	5.0394E-05	0.451

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3720E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.561	15.926	15.751
PT2/PT1	5.457E-02	5.248E-02	5.190E-02
TEMP(DEG R)	2092.6	2105.4	2118.2
TT2/TT1	1.0347	1.0410	1.0474

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 46 FRAME 26 TO 51 CONSTANT SET 111

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	C 0 8 1	5.10	0.5265E 06	75.05	1951.54	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IA POS
0.000	74.871	1950.212	0.069	0.095	674.271	-0.298	17.5998
0.070	74.871	1950.478	0.067	0.095	674.271	-0.311	17.6079
0.140	74.871	1950.472	0.069	0.137	675.246	-0.285	17.6079
0.210	74.871	1951.268	0.072	0.373	677.193	-0.298	17.6119
0.280	75.054	1950.871	0.085	0.971	719.302	-0.298	17.5837
0.350	75.054	1950.080	0.363	1.788	1109.078	-0.298	17.5797
0.420	74.871	1950.611	1.294	2.491	1514.937	-0.311	17.6039
0.490	75.054	1950.873	2.448	3.203	1696.084	-0.298	17.6079
0.560	75.054	1951.270	3.162	3.700	1757.575	-0.311	17.6079
0.630	75.054	1951.138	3.575	3.912	1793.871	-0.298	17.6039
0.700	75.054	1950.476	3.858	3.887	1826.529	-0.285	17.5998
0.770	74.871	1950.479	4.017	3.720	1847.512	-0.311	23.3965
0.840	75.054	1951.008	4.051	3.567	1861.003	-0.298	34.9213
0.910	75.054	1951.536	4.044	3.525	1866.390	-0.311	34.9254
0.980	75.054	1951.402	4.025	3.559	1889.218	-0.298	34.9173
1.050	75.054	1950.741	4.020	3.606	1909.273	-0.298	34.9213
1.120	75.054	1951.007	4.017	3.662	1915.940	-0.311	34.9213
1.190	75.054	1951.139	4.014	3.703	1922.598	-0.311	34.9254
1.260	74.871	1951.802	4.012	3.751	1919.270	-0.311	34.9254
1.330	75.054	1951.402	4.014	3.778	1931.240	-0.311	34.9173
1.400	75.054	1950.875	4.017	3.787	1937.877	-0.311	34.9213
1.470	75.054	1951.141	4.017	3.787	1946.492	-0.311	34.9213
1.540	74.871	1951.272	4.022	3.789	1935.223	-0.311	34.9254
1.610	74.871	1951.537	4.020	3.803	1937.877	-0.311	34.9254
1.680	74.871	1951.536	4.020	3.814	1945.829	-0.311	34.9173
1.750	75.054	1951.006	4.017	3.831	1962.355	-0.298	34.9213

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7273E 06	5.2647E 05	0.305	5.11	1084.2	0.11417E 07	0.3048	1.000	RUN NO. 46
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.2647E 05	5.2647E 05	1.000	75.05	1951.5	490.97	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.273	0.1871	0.1871	0.2142	0.2263	39	39	0.273	0.0608	0.0608	0.0696	0.0736
2	2	0.298	0.0000	0.0000	0.0000	0.0000	40	40	0.273	0.0421	0.0421	0.0482	0.0509
3	3	0.273	0.1735	0.1735	0.1986	0.2098	41	41	0.272	0.0351	0.0351	0.0402	0.0425
4	4	0.273	0.1704	0.1704	0.1951	0.2062	42	42	0.272	0.0346	0.0346	0.0396	0.0419
5	5	0.273	0.1633	0.1633	0.1870	0.1975	43	43	0.272	0.0339	0.0339	0.0388	0.0410
6	6	0.273	0.1580	0.1580	0.1809	0.1912	44	44	0.272	0.0307	0.0307	0.0351	0.0371
7	7	0.273	0.1471	0.1471	0.1684	0.1779	45	45	0.272	0.0334	0.0334	0.0382	0.0404
8	8	0.273	0.1345	0.1345	0.1540	0.1627	46	46	0.272	0.0378	0.0378	0.0433	0.0458
9	9	0.273	0.1237	0.1237	0.1416	0.1496	47	47	0.272	0.0396	0.0396	0.0454	0.0479
10	10	0.273	0.1132	0.1132	0.1296	0.1369	48	48	0.272	0.0410	0.0410	0.0469	0.0495
11	11	0.273	0.1029	0.1029	0.1178	0.1245	49	49	0.272	0.0336	0.0336	0.0385	0.0407
12	12	0.273	0.1016	0.1016	0.1163	0.1229	50	50	0.271	0.0244	0.0244	0.0279	0.0295
13	13	0.273	0.0883	0.0883	0.1011	0.1068	51	51	0.271	0.0312	0.0312	0.0358	0.0378
14	14	0.273	0.0812	0.0812	0.0930	0.0982	52	52	0.271	0.0338	0.0338	0.0387	0.0408
15	15	0.273	0.0690	0.0690	0.0791	0.0835	53	53	0.271	0.0426	0.0426	0.0487	0.0515
16	16	0.273	0.0642	0.0642	0.0735	0.0777	54	54	0.271	0.0418	0.0418	0.0478	0.0505
17	17	0.273	0.0664	0.0664	0.0760	0.0803	55	55	0.272	0.0394	0.0394	0.0451	0.0477
18	18	0.273	0.0676	0.0676	0.0774	0.0817	56	56	0.271	0.0375	0.0375	0.0430	0.0454
19	19	0.274	0.0664	0.0664	0.0760	0.0803	57	57	0.271	0.0319	0.0319	0.0365	0.0386
20	20	0.274	0.0691	0.0691	0.0791	0.0836	58	58	0.271	0.0306	0.0306	0.0350	0.0370
21	21	0.274	0.0722	0.0722	0.0827	0.0874	59	59	0.271	0.0273	0.0273	0.0312	0.0330
22	22	0.274	0.0740	0.0740	0.0847	0.0895	60	60	0.271	0.0283	0.0283	0.0324	0.0342
23	23	0.274	0.0758	0.0758	0.0868	0.0917	61	61	0.271	0.0278	0.0278	0.0319	0.0337
24	24	0.274	0.0784	0.0784	0.0898	0.0949	62	62	0.271	0.0241	0.0241	0.0275	0.0291
25	25	0.273	0.0781	0.0781	0.0896	0.0945	63	63	0.271	0.0186	0.0186	0.0213	0.0225
26	26	0.272	0.0931	0.0931	0.1066	0.1126	64	64	0.270	-0.0003	-0.0003	-0.0004	-0.0004
27	27	0.273	0.0990	0.0990	0.1133	0.1197	65	65	0.271	0.0160	0.0160	0.0184	0.0194
28	28	0.273	0.0990	0.0990	0.1133	0.1197	66	66	0.271	0.0142	0.0142	0.0163	0.0172
29	29	0.273	0.0980	0.0980	0.1122	0.1185	67	67	0.271	0.0121	0.0121	0.0139	0.0146
30	30	0.273	0.0941	0.0941	0.1077	0.1138	68	68	0.271	0.0123	0.0123	0.0141	0.0148
31	31	0.273	0.0862	0.0862	0.0987	0.1043	69	69	0.271	0.0108	0.0108	0.0123	0.0130
32	32	0.273	0.0770	0.0770	0.0881	0.0931	70	70	0.271	0.0098	0.0098	0.0112	0.0118
33	33	0.273	0.0735	0.0735	0.0841	0.0889	71	71	0.272	0.0132	0.0132	0.0151	0.0159
34	34	0.273	0.0726	0.0726	0.0831	0.0878	72	72	0.271	0.0150	0.0150	0.0172	0.0182
35	35	0.273	0.0711	0.0711	0.0814	0.0860	73	73	0.271	0.0111	0.0111	0.0127	0.0134
36	36	0.273	0.0732	0.0732	0.0838	0.0885	74	74	0.271	0.0090	0.0090	0.0103	0.0109
37	37	0.272	0.0745	0.0745	0.0853	0.0901	75	75	0.272	-0.0039	-0.0039	-0.0045	-0.0047
38	38	0.273	0.0763	0.0763	0.0873	0.0923							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.7273E 06	5.2647E 05	0.305	5.11	1084.2	0.11417E 07	0.3048	1.000	RUN NO.	46
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG K)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.2647E 05	5.2647E 05	1.000	75.05	1951.5	490.97	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	309.9	557.8	1.525	1.344	8.151	7.182	9.8128E-04	1.0368E-03	0.413
2	2	338.7	609.7	0.000	0.000	7.850	6.917	2.3717E-15	2.5117E-15	*******
3	3	310.2	558.4	1.413	1.245	8.148	7.179	9.0984E-04	9.6131E-04	0.396
4	4	310.2	558.4	1.389	1.224	8.148	7.179	8.9404E-04	9.4461E-04	0.386
5	5	310.3	558.6	1.330	1.172	8.147	7.178	8.5665E-04	9.0511E-04	0.375
6	6	310.2	558.3	1.288	1.135	8.148	7.180	8.2898E-04	8.7587E-04	0.366
7	7	310.2	558.4	1.198	1.056	8.148	7.179	7.7151E-04	8.1515E-04	0.336
8	8	310.4	558.7	1.096	0.965	8.146	7.178	7.0552E-04	7.4544E-04	0.318
9	9	310.3	558.6	1.007	0.888	8.147	7.178	6.4872E-04	6.8542E-04	0.295
10	10	310.3	558.5	0.922	0.812	8.147	7.179	5.9358E-04	6.2715E-04	0.274
11	11	310.3	558.5	0.838	0.739	8.147	7.179	5.3972E-04	5.7025E-04	0.265
12	12	310.3	558.6	0.828	0.729	8.147	7.178	5.3299E-04	5.6314E-04	0.276
13	13	310.5	558.9	0.719	0.634	8.145	7.177	4.6309E-04	4.8930E-04	0.262
14	14	310.6	559.0	0.661	0.583	8.144	7.176	4.2593E-04	4.5003E-04	0.224
15	15	310.5	558.9	0.562	0.496	8.145	7.177	3.6221E-04	3.8271E-04	0.202
16	16	310.6	559.0	0.523	0.461	8.144	7.176	3.3689E-04	3.5595E-04	0.183
17	17	310.7	559.3	0.540	0.476	8.143	7.175	3.4811E-04	3.6782E-04	0.207
18	18	310.9	559.6	0.550	0.485	8.141	7.173	3.5439E-04	3.7445E-04	0.227
19	19	311.1	559.9	0.540	0.476	8.139	7.171	3.4820E-04	3.6792E-04	0.229
20	20	311.1	560.0	0.562	0.495	8.138	7.171	3.6244E-04	3.8297E-04	0.236
21	21	311.3	560.4	0.588	0.518	8.136	7.169	3.7897E-04	4.0044E-04	0.237
22	22	311.2	560.1	0.602	0.530	8.138	7.170	3.8800E-04	4.0998E-04	0.235
23	23	311.1	560.1	0.617	0.544	8.138	7.171	3.9764E-04	4.2016E-04	0.244
24	24	311.2	560.1	0.638	0.562	8.138	7.170	4.1143E-04	4.3473E-04	0.249
25	25	310.6	559.1	0.636	0.561	8.144	7.176	4.0977E-04	4.3297E-04	0.247
26	26	309.7	557.5	0.759	0.669	8.153	7.184	4.8838E-04	5.1599E-04	0.485
27	27	310.0	557.9	0.807	0.711	8.151	7.182	5.1919E-04	5.4854E-04	0.461
28	28	310.0	557.9	0.807	0.711	8.150	7.182	5.1928E-04	5.4864E-04	0.455
29	29	310.1	558.1	0.798	0.704	8.149	7.181	5.1392E-04	5.4298E-04	0.435
30	30	310.0	558.0	0.767	0.676	8.150	7.181	4.9356E-04	5.2147E-04	0.409
31	31	309.9	557.8	0.703	0.619	8.151	7.182	4.5237E-04	4.7795E-04	0.396
32	32	309.9	557.7	0.627	0.553	8.152	7.183	4.0371E-04	4.2653E-04	0.373
33	33	310.0	558.1	0.599	0.528	8.150	7.181	3.8541E-04	4.0720E-04	0.346
34	34	309.9	557.9	0.592	0.521	8.151	7.182	3.8088E-04	4.0241E-04	0.341
35	35	309.9	557.8	0.579	0.510	8.151	7.183	3.7275E-04	3.9382E-04	0.371
36	36	309.9	557.8	0.597	0.526	8.151	7.182	3.8387E-04	4.0557E-04	0.386
37	37	309.8	557.6	0.608	0.535	8.153	7.184	3.9087E-04	4.1296E-04	0.404
38	38	310.0	557.9	0.622	0.548	8.151	7.182	4.0010E-04	4.2272E-04	0.411
39	39	309.9	557.8	0.496	0.437	8.151	7.182	3.1908E-04	3.3712E-04	0.347
40	40	309.9	557.8	0.343	0.302	8.151	7.182	2.2066E-04	2.3314E-04	0.231
41	41	308.7	555.6	0.287	0.253	8.164	7.194	1.8416E-04	1.9455E-04	0.292
42	42	308.9	556.0	0.283	0.249	8.162	7.191	1.8158E-04	1.9183E-04	0.291
43	43	309.0	556.2	0.277	0.244	8.160	7.190	1.7778E-04	1.8782E-04	0.341
44	44	308.9	556.0	0.250	0.221	8.162	7.191	1.6094E-04	1.7002E-04	0.308
45	45	308.9	556.1	0.273	0.240	8.161	7.191	1.7515E-04	1.8504E-04	0.358
46	46	309.3	556.8	0.309	0.272	8.157	7.187	1.9851E-04	2.0972E-04	0.337
47	47	309.1	556.4	0.323	0.285	8.159	7.189	2.0786E-04	2.1959E-04	0.282
48	48	309.1	556.4	0.334	0.294	8.160	7.190	2.1483E-04	2.2696E-04	0.247
49	49	309.0	556.2	0.274	0.242	8.160	7.190	1.7634E-04	1.8629E-04	0.282
50	50	308.6	555.5	0.199	0.175	8.164	7.194	1.2783E-04	1.3504E-04	0.344
51	51	308.3	554.9	0.255	0.225	8.168	7.197	1.6386E-04	1.7311E-04	0.599
52	52	308.2	554.7	0.276	0.243	8.169	7.198	1.7717E-04	1.8716E-04	0.554
53	53	308.1	554.6	0.348	0.306	8.170	7.199	2.2320E-04	2.3579E-04	0.535
54	54	308.6	555.5	0.341	0.301	8.164	7.194	2.1919E-04	2.3156E-04	0.540
55	55	308.8	555.8	0.322	0.284	8.163	7.193	2.0688E-04	2.1856E-04	0.523
56	56	308.5	555.4	0.306	0.270	8.165	7.195	1.9684E-04	2.0795E-04	0.505
57	57	308.4	555.1	0.261	0.230	8.167	7.196	1.6743E-04	1.7688E-04	0.467
58	58	308.5	555.3	0.250	0.220	8.166	7.195	1.6051E-04	1.6957E-04	0.457
59	59	308.4	555.2	0.223	0.196	8.166	7.196	1.4310E-04	1.5117E-04	0.468
60	60	308.5	555.3	0.231	0.203	8.166	7.195	1.4824E-04	1.5661E-04	0.534
61	61	308.3	555.0	0.227	0.200	8.168	7.197	1.4604E-04	1.5428E-04	0.596
62	62	308.2	554.8	0.196	0.173	8.169	7.198	1.2615E-04	1.3326E-04	0.625
63	63	308.1	554.6	0.152	0.134	8.170	7.199	9.7756E-05	1.0327E-04	0.792
64	64	307.5	553.4	-0.003	-0.002	8.177	7.205	-1.8102E-06	-1.9122E-06	-4.713
65	65	308.1	554.6	0.131	0.115	8.170	7.199	8.4117E-05	8.8860E-05	0.468
66	66	308.0	554.4	0.116	0.102	8.171	7.200	7.4648E-05	7.8856E-05	0.559
67	67	308.3	554.9	0.099	0.087	8.168	7.197	6.3529E-05	6.7113E-05	0.459
68	68	308.3	555.0	0.100	0.088	8.167	7.197	6.4383E-05	6.8015E-05	0.492
69	69	308.4	555.1	0.088	0.077	8.167	7.196	5.6416E-05	5.9598E-05	0.541
70	70	308.3	554.9	0.080	0.070	8.168	7.197	5.1198E-05	5.4086E-05	0.520
71	71	308.9	556.1	0.107	0.095	8.161	7.191	6.8973E-05	7.2867E-05	0.594
72	72	308.6	555.5	0.123	0.108	8.165	7.194	7.8742E-05	8.3186E-05	0.547
73	73	308.5	555.4	0.090	0.080	8.165	7.195	5.8016E-05	6.1289E-05	0.523
74	74	308.4	555.2	0.074	0.065	8.166	7.196	4.7365E-05	5.0037E-05	0.474
75	75	309.2	556.6	-0.032	-0.028	8.158	7.189	-2.0572E-05	-2.1734E-05	0.463

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3642E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.989	4.017	3.831
PT2/PT1	5.315E-02	5.352E-02	5.104E-02
TEMP(DEG R)	1889.2	1962.4	637.6
TT2/TT1	0.9681	1.0055	0.3267

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.9 FT. HT DATA TEST NO. 182 RUN NO. 47 FRAME 26 TO 51 CONSTANT SET 111

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PI(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.9969E 06	148.97	2056.75	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	148.968	2055.464	0.146	0.198	717.418	-0.292	17.6056
0.070	148.785	2055.596	0.146	0.209	719.302	-0.305	17.6056
0.140	148.785	2056.371	0.143	0.284	720.244	-0.305	17.6097
0.210	148.968	2057.143	0.148	0.815	724.940	-0.305	17.6137
0.280	148.968	2055.978	0.159	2.118	815.690	-0.292	17.6016
0.350	149.151	2055.207	0.823	3.736	1297.127	-0.292	17.6056
0.420	148.968	2055.597	2.766	5.151	1739.681	-0.305	17.6056
0.490	148.968	2055.980	5.021	6.591	1901.929	-0.305	17.6097
0.560	148.968	2057.016	6.442	7.567	1962.355	-0.318	17.6137
0.630	149.151	2056.108	7.323	7.936	1979.683	-0.305	17.6056
0.700	149.151	2055.337	7.852	7.909	1993.272	-0.292	17.6056
0.770	148.785	2055.595	8.104	7.631	2032.454	-0.305	29.0429
0.840	148.968	2055.980	8.141	7.405	2053.870	-0.305	34.9208
0.910	148.968	2056.754	8.059	7.372	2053.222	-0.305	34.9289
0.980	149.151	2056.237	8.030	7.453	2017.472	-0.305	34.9208
1.050	148.968	2055.077	7.982	7.556	2038.954	-0.305	34.9208
1.120	149.151	2055.206	7.985	7.658	2058.400	-0.331	34.9289
1.190	148.968	2055.335	8.009	7.736	2073.257	-0.305	34.9249
1.260	148.968	2056.365	8.022	7.778	2060.341	-0.318	34.9289
1.330	148.968	2055.460	8.011	7.814	2058.400	-0.305	34.9208
1.400	149.151	2055.072	8.006	7.845	2063.573	-0.305	34.9208
1.470	148.968	2054.817	8.011	7.864	2082.922	-0.318	34.9208
1.540	148.968	2055.073	8.027	7.895	2092.568	-0.318	34.9289
1.610	148.968	2055.976	8.038	7.934	2096.422	-0.305	34.9289
1.680	149.151	2055.587	8.038	7.953	2110.525	-0.305	34.9168
1.750	148.968	2054.557	8.046	7.956	2111.165	-0.305	34.9249

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1381E 06	9.5649E 05	0.305	10.13	1142.6	0.12094E 07	0.3048	1.CCC	RUN NO. 47
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5649E 05	9.5649E 05	1.000	148.97	2056.8	520.05	1.CCCC	1.CCC	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.CCC)	H/HS(0.9C8)	H/HS(C.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.CCC)	H/HS(C.908)	H/HS(C.874)
1	1	0.260	0.2713	C.2713	C.3098	C.3270	39	39	0.261	C.1C42	0.1042	0.1190	0.1256
2	2	0.281	C.CCCC	C.CCCC	C.CCCC	C.CCCC	40	40	0.261	C.0827	C.0827	C.0945	0.0998
3	3	0.261	C.2753	0.2753	C.3145	0.3319	41	41	0.260	0.0691	0.0691	0.0790	C.0833
4	4	0.261	C.2859	0.2859	C.3266	C.3447	42	42	C.261	C.0513	0.0513	C.0586	C.0618
5	5	0.261	C.2865	C.2865	C.3272	0.3454	43	43	0.261	C.0387	0.0387	0.0442	0.0466
6	6	0.261	C.2907	0.2907	C.3320	C.3504	44	44	0.261	C.C4C6	0.C4C6	0.C463	C.C489
7	7	0.261	C.2972	0.2972	C.3394	C.3583	45	45	C.261	0.0558	C.C558	C.C637	C.C672
8	8	0.261	C.2846	0.2846	C.3251	C.3432	46	46	C.261	0.0622	0.C622	C.C711	C.C750
9	9	0.261	C.2646	0.2646	C.3022	C.3190	47	47	0.261	0.C5C5	0.C5C5	0.0577	0.0609
10	10	0.261	C.2357	0.2357	C.2692	C.2842	48	48	0.261	0.0408	C.C4C8	0.C466	0.C492
11	11	0.262	C.1998	0.1998	C.2282	C.2409	49	49	0.261	0.0215	0.C215	C.0246	C.C259
12	12	0.262	C.1772	0.1772	C.2024	0.2136	50	5C	0.260	0.CC63	C.C063	C.C072	C.C076
13	13	0.262	0.1434	0.1434	C.1639	C.1730	51	51	0.258	C.C7C5	0.C7C5	0.C8C4	0.C849
14	14	0.263	C.1278	0.1278	C.1460	C.1542	52	52	0.257	0.0705	C.C7C5	0.C8C5	0.C849
15	15	0.263	C.1030	0.1C30	C.1177	0.1242	53	53	0.258	0.1105	0.1109	0.1266	C.1336
16	16	0.263	C.0860	C.C860	C.0983	0.1037	54	54	0.258	0.1105	0.1105	0.1266	0.1336
17	17	0.263	0.0753	C.0753	C.0861	0.C9C9	55	55	0.258	0.1104	0.1104	0.1261	0.1330
18	18	0.264	0.0703	0.0703	C.0803	C.0848	56	56	0.258	0.1093	C.1093	0.1248	C.1317
19	19	0.264	C.0677	0.0677	C.C774	0.0817	57	57	0.258	0.1062	C.1062	C.1213	C.1280
20	20	0.264	C.0726	C.C726	C.C830	C.0876	58	58	0.258	0.11CC	0.11CC	0.1256	0.1325
21	21	0.264	0.0713	C.0713	C.0814	C.0860	59	59	0.258	0.1154	0.1154	0.1317	0.1390
22	22	0.264	C.0728	0.0728	C.0832	0.0878	60	60	0.259	0.1156	C.1156	0.132C	C.1392
23	23	0.264	C.0727	C.C727	0.0831	0.0878	61	61	0.259	0.1057	C.1057	0.1207	C.1273
24	24	0.264	C.0733	C.0733	C.0838	0.0885	62	62	0.259	C.C787	0.C787	0.0898	0.0948
25	25	0.263	0.0709	C.0709	C.0810	0.0856	63	63	0.259	0.0549	0.C549	0.0627	0.0662
26	26	0.260	C.1573	0.1573	C.1796	C.1895	64	64	0.258	0.0280	C.C280	C.C32C	C.C337
27	27	0.260	C.1668	C.1668	C.1905	0.2011	65	65	0.259	0.0505	0.C505	C.C577	C.C608
28	28	0.260	0.1769	C.1769	C.2021	0.2133	66	66	0.259	0.0379	0.0379	0.0433	0.0457
29	29	0.261	0.1819	C.1819	C.2078	0.2193	67	67	0.259	0.0272	0.C272	0.0311	0.0328
30	30	0.261	C.1884	0.1884	C.2152	0.2271	68	68	0.259	0.0209	C.C209	0.C238	C.C251
31	31	0.260	0.1838	C.1838	0.2099	0.2215	69	69	C.260	0.0232	0.C232	0.0265	C.C279
32	32	0.260	C.1802	C.1802	C.2058	C.2172	70	70	0.260	0.C328	0.C328	0.0375	0.0396
33	33	0.261	0.1860	C.1860	C.2124	C.2242	71	71	0.261	0.0364	0.C364	0.C416	0.0439
34	34	0.261	C.1958	C.1958	C.2237	C.2361	72	72	0.260	0.0288	C.C288	0.0329	C.C347
35	35	0.261	C.1899	C.1859	C.2168	0.2289	73	73	0.260	0.0174	C.C174	0.C198	C.C209
36	36	0.261	C.1801	C.1801	C.2058	C.2172	74	74	0.260	0.CC9C	0.C09C	0.0103	C.C109
37	37	0.261	0.1506	0.1506	C.1720	0.1815	75	75	0.261	-0.0087	-0.C087	-0.C1CC	-C.C105
38	38	0.261	C.1298	0.1298	C.1483	0.1565							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PAW/PT	TEST NO. 182
5.10	3.1381E 06	9.5645E 05 C.100	10.13	1142.6	0.12094E 07	0.3048	1.000	RUN NO. 47
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	PAW/HT	
5.10	9.5644E 05	9.5645E 05 1.000	148.97	2056.8	520.05	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(C.874)	TIME(SEC)
1	1	313.5	564.4	3.353	2.954	12.361	10.891	1.0473E-03	1.1053E-03	C.351
2	2	338.7	609.7	0.000	C.CCC	11.989	10.564	7.8181E-1C	8.2665E-1C	*******
3	3	314.2	565.6	3.400	2.996	12.351	10.883	1.0636E-03	1.1219E-03	0.354
4	4	314.3	565.7	3.531	3.111	12.350	10.882	1.1039E-03	1.1651E-03	C.357
5	5	314.4	566.0	3.538	3.117	12.348	10.880	1.1061E-03	1.1675E-03	C.354
6	6	314.4	565.8	3.589	3.163	12.349	10.881	1.1223E-03	1.1845E-03	C.357
7	7	314.5	566.1	3.669	3.233	12.347	10.879	1.1473E-03	1.2110E-03	0.372
8	8	314.8	566.6	3.513	3.096	12.343	10.876	1.0990E-03	1.1600E-03	C.380
9	9	314.8	566.6	3.265	2.877	12.342	10.875	1.0215E-03	1.0782E-03	C.381
10	10	314.9	566.7	2.909	2.563	12.341	10.874	9.1001E-04	9.6052E-04	0.381
11	11	315.1	567.1	2.465	2.172	12.338	10.872	7.7136E-04	8.1418E-04	C.372
12	12	315.4	567.6	2.185	1.925	12.334	10.868	6.8405E-04	7.2205E-04	C.357
13	13	315.9	568.6	1.768	1.558	12.326	10.861	5.5387E-04	5.8465E-04	C.323
14	14	316.1	569.0	1.575	1.388	12.322	10.858	4.9358E-04	5.2103E-04	0.287
15	15	316.2	569.2	1.269	1.118	12.321	10.856	3.9768E-04	4.198CE-04	C.263
16	16	316.5	569.7	1.059	0.933	12.317	10.853	3.3206E-04	3.5053E-04	C.219
17	17	316.9	570.4	0.928	0.817	12.311	10.848	2.9094E-04	3.0713E-04	C.175
18	18	317.3	571.1	0.865	C.762	12.305	10.843	2.7144E-04	2.8661E-04	C.144
19	19	317.5	571.5	0.833	C.734	12.302	10.840	2.6153E-04	2.7610E-04	C.132
20	20	317.7	571.8	0.893	0.787	12.300	10.838	2.8C36E-04	2.9598E-04	C.173
21	21	318.2	572.7	0.876	0.772	12.292	10.831	2.7522E-04	2.9056E-04	C.163
22	22	317.9	572.2	0.895	C.788	12.296	10.835	2.81C2E-04	2.9668E-04	C.169
23	23	317.8	572.1	0.894	C.788	12.297	10.835	2.8089E-04	2.9654E-04	C.170
24	24	317.8	572.0	0.902	0.794	12.298	10.836	2.8314E-04	2.9892E-04	C.168
25	25	317.0	570.6	0.873	C.769	12.310	10.847	2.7388E-04	2.8913E-04	0.151
26	26	313.1	563.6	1.945	1.714	12.367	10.897	6.C706E-04	6.4068E-04	C.418
27	27	313.6	564.4	2.062	1.817	12.360	10.891	6.4259E-04	6.7967E-04	C.396
28	28	313.6	564.5	2.187	1.927	12.360	10.891	6.8306E-04	7.2091E-04	C.391
29	29	313.7	564.7	2.248	1.981	12.358	10.889	7.0243E-04	7.4136E-04	C.374
30	30	313.8	564.8	2.328	2.051	12.357	10.889	7.2733E-04	7.6765E-04	C.367
31	31	313.6	564.4	2.271	2.001	12.360	10.891	7.0939E-04	7.4870E-04	C.358
32	32	313.6	564.5	2.227	1.963	12.360	10.891	6.9569E-04	7.3424E-04	C.347
33	33	313.9	565.1	2.297	2.024	12.355	10.886	7.1790E-04	7.5770E-04	C.365
34	34	314.0	565.2	2.419	2.132	12.354	10.886	7.5603E-04	7.9795E-04	C.393
35	35	314.0	565.2	2.346	2.067	12.354	10.886	7.3298E-04	7.7362E-04	C.423
36	36	314.1	565.4	2.225	1.961	12.352	10.884	6.9551E-04	7.3408E-04	C.420
37	37	314.2	565.5	1.860	1.639	12.351	10.883	5.8132E-04	6.1366E-04	C.394
38	38	314.7	566.5	1.602	1.412	12.343	10.876	5.C110E-04	5.2891E-04	C.334
39	39	314.7	566.4	1.286	1.133	12.344	10.877	4.0223E-04	4.2455E-04	C.280
40	40	314.8	566.7	1.021	C.900	12.341	10.874	3.1943E-04	3.3716E-04	0.238
41	41	313.1	563.5	0.855	C.754	12.368	10.898	2.6695E-04	2.8173E-04	0.273
42	42	313.7	564.7	0.634	0.558	12.358	10.889	1.9794E-04	2.0892E-04	C.211
43	43	314.0	565.2	0.478	0.421	12.354	10.885	1.4925E-04	1.5753E-04	C.171
44	44	314.0	565.2	0.501	0.442	12.354	10.885	1.5659E-04	1.6527E-04	0.129
45	45	314.3	565.7	0.689	C.607	12.350	10.882	2.1532E-04	2.2726E-04	0.150
46	46	314.7	566.5	0.768	C.677	12.343	10.876	2.4C28E-04	2.5361E-04	C.117
47	47	314.4	566.0	0.624	0.550	12.347	10.880	1.9516E-04	2.0598E-04	C.008
48	48	314.3	565.8	0.504	C.444	12.349	10.881	1.5755E-04	1.6629E-04	-C.033
49	49	314.2	565.5	0.266	C.234	12.351	10.883	8.3C12E-C5	8.7615E-05	-C.113
50	50	313.5	564.3	0.078	0.069	12.361	10.892	2.45CCE-05	2.5857E-05	-C.128
51	51	310.1	558.1	0.875	0.771	12.412	10.937	2.7194E-04	2.8693E-04	C.530
52	52	309.9	557.9	0.876	0.772	12.414	10.939	2.7221E-04	2.8722E-04	0.454
53	53	310.4	558.7	1.376	1.213	12.407	10.933	4.281CE-04	4.5172E-04	C.473
54	54	311.1	560.0	1.375	1.211	12.397	10.923	4.2801E-04	4.5164E-04	C.431
55	55	311.2	560.2	1.369	1.206	12.395	10.921	4.2627E-04	4.4982E-04	C.418
56	56	311.0	559.8	1.356	1.195	12.399	10.925	4.2202E-04	4.4532E-04	C.402
57	57	310.8	559.5	1.317	1.161	12.401	10.927	4.1C06E-04	4.327CE-04	0.404
58	58	311.0	559.8	1.364	1.202	12.399	10.925	4.2452E-04	4.4796E-04	C.438
59	59	311.1	559.9	1.430	1.260	12.397	10.924	4.4527E-04	4.6986E-04	C.485
60	60	311.3	560.4	1.432	1.262	12.394	10.920	4.4612E-04	4.7076E-04	0.524
61	61	311.3	560.3	1.310	1.154	12.394	10.921	4.0802E-04	4.3056E-04	C.551
62	62	311.4	560.5	0.975	C.859	12.393	10.920	3.0365E-04	3.2043E-04	C.545
63	63	311.6	560.9	0.680	C.599	12.389	10.917	2.1194E-04	2.2365E-04	0.580
64	64	311.0	559.7	0.347	C.306	12.399	10.925	1.0813E-04	1.141CE-04	0.568
65	65	311.5	560.7	0.626	C.551	12.391	10.918	1.9493E-04	2.0570E-04	C.394
66	66	311.6	560.9	0.470	C.414	12.389	10.917	1.4632E-04	1.5441E-04	C.371
67	67	312.2	561.9	0.337	0.297	12.381	10.909	1.0514E-04	1.1095E-04	0.336
68	68	312.3	562.2	0.258	C.228	12.379	10.907	8.0566E-05	8.5023E-05	0.334
69	69	312.6	562.7	0.287	C.253	12.375	10.904	8.9467E-05	9.4419E-05	C.316
70	70	312.8	563.0	0.406	C.358	12.372	10.902	1.2681E-04	1.3382E-04	C.312
71	71	313.7	564.6	0.450	C.396	12.359	10.890	1.4049E-04	1.4828E-04	0.318
72	72	313.4	564.2	0.356	C.314	12.362	10.893	1.1115E-04	1.1731E-04	0.196
73	73	313.4	564.1	0.219	C.189	12.363	10.894	6.6991E-05	7.0702E-05	C.225
74	74	313.3	563.9	C.111	0.098	12.365	10.895	3.4780E-05	3.6707E-05	C.212
75	75	313.9	565.0	-0.106	-C.095	12.355	10.887	-3.3683E-05	-3.5551E-05	0.461

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6036E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.098	8.046	7.559
PT2/PT1	5.436E-02	5.401E-02	5.342E-02
TEMP(DEG R)	2027.9	2111.2	643.7
TT2/TT1	0.9860	1.0265	0.3129

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 48 FRAME 26 TO 52 /CONSTANT SET-112

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2017E 07	304.76	2020.28	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.764	2020.543	0.298	0.325	780.075	-0.299	17.6115
0.070	304.581	2020.414	0.296	0.366	780.075	-0.312	17.6074
0.140	304.581	2020.803	0.296	0.725	783.675	-0.312	17.6115
0.210	304.764	2021.322	0.317	2.518	813.048	-0.312	17.6115
0.280	304.764	2020.544	0.650	5.906	1105.228	-0.286	17.5994
0.350	304.764	2020.412	3.176	8.800	1677.298	-0.299	17.6074
0.420	304.764	2020.284	8.078	11.899	1909.273	-0.325	17.6074
0.490	304.764	2020.283	12.038	14.465	1952.447	-0.312	17.6074
0.560	304.581	2020.414	14.418	15.694	1989.992	-0.325	17.6034
0.630	304.764	2020.284	15.855	15.861	2008.329	-0.312	17.5994
0.700	304.764	2020.023	16.443	15.499	2040.902	-0.325	34.9082
0.770	304.581	2020.023	16.488	15.121	2053.870	-0.325	34.9203
0.840	304.764	2020.024	16.318	15.024	2056.459	-0.325	34.9203
0.910	304.764	2020.284	16.197	15.160	2073.257	-0.325	34.9243
0.980	304.947	2020.414	16.133	15.352	2066.803	-0.312	34.9122
1.050	304.764	2019.633	16.112	15.555	2052.574	-0.312	34.9163
1.120	304.764	2019.763	16.099	15.716	2038.954	-0.325	34.9163
1.190	304.764	2019.764	16.112	15.841	2042.849	-0.325	34.9203
1.260	304.764	2020.284	16.138	15.911	2076.481	-0.325	34.9203
1.330	304.947	2020.284	16.152	15.983	2066.803	-0.325	34.9122
1.400	304.947	2019.504	16.136	16.000	2057.753	-0.299	34.9163
1.470	304.764	2019.504	16.125	16.036	2064.219	-0.325	34.9122
1.540	304.947	2020.023	16.115	16.089	2053.870	-0.325	34.9082
1.610	304.947	2020.023	16.096	16.108	2066.803	-0.325	34.9203
1.680	304.947	2019.764	16.109	16.152	2082.278	-0.299	34.9082
1.750	304.947	2019.764	16.149	16.202	2073.257	-0.299	34.9122
1.820	304.947	2019.764	16.152	16.236	2049.335	-0.325	34.9122

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.6170E 06	2.0169E 06 0.305	20.73	1122.4	0.11858E 07	0.3048	1.000	RUN NO. 48
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0169E 06	2.0169E 06 1.000	304.76	2020.3	509.94	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.269	0.2736	0.2736	0.3131	0.3307	39	39	0.269	0.2050	0.2050	0.2345	0.2477
2	2	0.287	0.0000	0.0000	0.0000	0.0000	40	40	0.269	0.1277	0.1277	0.1461	0.1543
3	3	0.270	0.2845	0.2845	0.3255	0.3439	41	41	0.267	0.0894	0.0894	0.1023	0.1080
4	4	0.270	0.2982	0.2982	0.3412	0.3604	42	42	0.270	0.0870	0.0870	0.0996	0.1052
5	5	0.271	0.3003	0.3003	0.3436	0.3630	43	43	0.268	0.1073	0.1073	0.1227	0.1296
6	6	0.270	0.3084	0.3084	0.3530	0.3728	44	44	0.268	0.1156	0.1156	0.1322	0.1396
7	7	0.270	0.3237	0.3237	0.3704	0.3912	45	45	0.269	0.1078	0.1078	0.1234	0.1303
8	8	0.271	0.3322	0.3322	0.3801	0.4015	46	46	0.269	0.1056	0.1056	0.1208	0.1276
9	9	0.271	0.3454	0.3454	0.3953	0.4176	47	47	0.269	0.0762	0.0762	0.0872	0.0921
10	10	0.271	0.3590	0.3590	0.4108	0.4339	48	48	0.269	0.0493	0.0493	0.0564	0.0595
11	11	0.271	0.3554	0.3554	0.4067	0.4296	49	49	0.269	0.0204	0.0204	0.0234	0.0247
12	12	0.271	0.3557	0.3557	0.4071	0.4300	50	50	0.268	-0.0005	-0.0005	-0.0005	-0.0006
13	13	0.271	0.3199	0.3199	0.3662	0.3868	51	51	0.264	0.0601	0.0601	0.0687	0.0725
14	14	0.272	0.2915	0.2915	0.3337	0.3525	52	52	0.265	0.0621	0.0621	0.0710	0.0749
15	15	0.271	0.2090	0.2090	0.2392	0.2527	53	53	0.265	0.1004	0.1004	0.1147	0.1211
16	16	0.272	0.1392	0.1392	0.1593	0.1683	54	54	0.265	0.1055	0.1055	0.1207	0.1274
17	17	0.272	0.0995	0.0995	0.1139	0.1204	55	55	0.266	0.1091	0.1091	0.1247	0.1316
18	18	0.273	0.0853	0.0853	0.0976	0.1031	56	56	0.265	0.1126	0.1126	0.1287	0.1359
19	19	0.273	0.0730	0.0730	0.0836	0.0883	57	57	0.265	0.1141	0.1141	0.1304	0.1377
20	20	0.273	0.0708	0.0708	0.0811	0.0857	58	58	0.265	0.1145	0.1145	0.1309	0.1382
21	21	0.274	0.0691	0.0691	0.0791	0.0836	59	59	0.265	0.1218	0.1218	0.1392	0.1470
22	22	0.274	0.0714	0.0714	0.0817	0.0864	60	60	0.265	0.1420	0.1420	0.1623	0.1713
23	23	0.274	0.0699	0.0699	0.0800	0.0845	61	61	0.265	0.1697	0.1697	0.1940	0.2048
24	24	0.274	0.0665	0.0665	0.0762	0.0805	62	62	0.265	0.1786	0.1786	0.2042	0.2156
25	25	0.273	0.0616	0.0616	0.0705	0.0745	63	63	0.265	0.1529	0.1529	0.1747	0.1845
26	26	0.269	0.1360	0.1360	0.1556	0.1643	64	64	0.264	0.0830	0.0830	0.0948	0.1001
27	27	0.269	0.1426	0.1426	0.1632	0.1723	65	65	0.264	0.0693	0.0693	0.0792	0.0836
28	28	0.269	0.1526	0.1526	0.1746	0.1844	66	66	0.264	0.0478	0.0478	0.0546	0.0577
29	29	0.269	0.1608	0.1608	0.1840	0.1943	67	67	0.265	0.0595	0.0595	0.0680	0.0718
30	30	0.269	0.1689	0.1689	0.1932	0.2041	68	68	0.266	0.0811	0.0811	0.0927	0.0978
31	31	0.269	0.1666	0.1666	0.1905	0.2012	69	69	0.266	0.0915	0.0915	0.1046	0.1104
32	32	0.269	0.1686	0.1686	0.1929	0.2038	70	70	0.267	0.0803	0.0803	0.0918	0.0969
33	33	0.269	0.1921	0.1921	0.2198	0.2322	71	71	0.268	0.0779	0.0779	0.0891	0.0941
34	34	0.269	0.2149	0.2149	0.2459	0.2597	72	72	0.267	0.0502	0.0502	0.0574	0.0606
35	35	0.269	0.2344	0.2344	0.2682	0.2833	73	73	0.267	0.0210	0.0210	0.0240	0.0253
36	36	0.269	0.2650	0.2650	0.3031	0.3202	74	74	0.267	0.0079	0.0079	0.0090	0.0095
37	37	0.269	0.2731	0.2731	0.3124	0.3299	75	75	0.266	-0.0113	-0.0113	-0.0129	-0.0136
38	38	0.269	0.2662	0.2662	0.3046	0.3217							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.6170E 06	2.0169E 06 0.305	20.73	1122.4	0.11858E 07	0.3048	1.000	RUN NO. 48
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0169E 06	2.0169E 06 1.000	304.76	2020.3	509.94	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	318.2	572.7	4.685	4.128	17.120	15.085	7.2986E-04	7.7091E-04	0.290
2	2	338.7	609.6	0.000	0.000	16.687	14.704	1.4733E-16	1.5586E-16	*******
3	3	319.3	574.7	4.864	4.286	17.096	15.064	7.5884E-04	8.0159E-04	0.300
4	4	319.3	574.8	5.098	4.492	17.096	15.064	7.9540E-04	8.4021E-04	0.309
5	5	319.5	575.1	5.132	4.522	17.093	15.061	8.0096E-04	8.4610E-04	0.307
6	6	319.2	574.6	5.274	4.647	17.098	15.066	8.2276E-04	8.6910E-04	0.311
7	7	319.4	574.9	5.533	4.875	17.095	15.063	8.6337E-04	9.1201E-04	0.320
8	8	319.7	575.5	5.676	5.001	17.088	15.056	8.8603E-04	9.3597E-04	0.328
9	9	319.6	575.4	5.803	5.201	17.089	15.058	9.2139E-04	9.7332E-04	0.330
10	10	319.6	575.2	6.135	5.406	17.091	15.059	9.5753E-04	1.0115E-03	0.335
11	11	319.6	575.2	6.074	5.352	17.091	15.059	9.4797E-04	1.0014E-03	0.336
12	12	319.9	575.7	6.077	5.355	17.085	15.054	9.4888E-04	1.0024E-03	0.327
13	13	320.4	576.8	5.462	4.813	17.072	15.043	8.5346E-04	9.0161E-04	0.299
14	14	320.7	577.3	4.976	4.384	17.067	15.038	7.7774E-04	8.2164E-04	0.259
15	15	320.5	576.9	3.567	3.143	17.071	15.042	5.5749E-04	5.8895E-04	0.203
16	16	320.9	577.6	2.375	2.092	17.063	15.035	3.7129E-04	3.9225E-04	0.134
17	17	321.4	578.6	1.697	1.495	17.051	15.024	2.6555E-04	2.8056E-04	0.113
18	18	322.2	579.9	1.452	1.280	17.036	15.011	2.2748E-04	2.4035E-04	0.134
19	19	322.5	580.5	1.243	1.096	17.029	15.005	1.9482E-04	2.0584E-04	0.097
20	20	322.8	581.0	1.206	1.063	17.024	15.000	1.8904E-04	1.9974E-04	0.078
21	21	323.7	582.7	1.174	1.035	17.003	14.982	1.8427E-04	1.9472E-04	0.069
22	22	323.5	582.2	1.214	1.070	17.008	14.987	1.9045E-04	2.0124E-04	0.095
23	23	323.4	582.1	1.188	1.047	17.010	14.988	1.8640E-04	1.9697E-04	0.081
24	24	323.5	582.2	1.132	0.997	17.009	14.987	1.7756E-04	1.8762E-04	0.041
25	25	322.0	579.6	1.049	0.924	17.040	15.014	1.6425E-04	1.7354E-04	-0.018
26	26	317.0	570.6	2.331	2.054	17.145	15.107	3.6267E-04	3.8303E-04	0.303
27	27	317.9	572.3	2.442	2.152	17.125	15.090	3.8039E-04	4.0178E-04	0.281
28	28	317.9	572.3	2.614	2.303	17.125	15.090	4.0707E-04	4.2996E-04	0.270
29	29	318.0	572.3	2.754	2.426	17.125	15.089	4.2887E-04	4.5299E-04	0.267
30	30	317.9	572.3	2.892	2.548	17.125	15.090	4.5044E-04	4.7576E-04	0.276
31	31	317.5	571.5	2.854	2.515	17.135	15.098	4.4421E-04	4.6917E-04	0.299
32	32	317.3	571.1	2.890	2.547	17.139	15.101	4.4977E-04	4.7504E-04	0.303
33	33	318.1	572.6	3.290	2.899	17.122	15.087	5.1247E-04	5.4129E-04	0.342
34	34	317.9	572.3	3.680	3.243	17.125	15.090	5.7317E-04	6.0540E-04	0.349
35	35	317.8	572.0	4.016	3.538	17.129	15.093	6.2528E-04	6.6043E-04	0.347
36	36	317.7	571.8	4.539	4.000	17.131	15.095	7.0671E-04	7.4642E-04	0.332
37	37	317.5	571.6	4.678	4.122	17.134	15.097	7.2823E-04	7.6915E-04	0.329
38	38	318.2	572.7	4.558	4.016	17.120	15.085	7.1004E-04	7.4998E-04	0.316
39	39	317.8	572.1	3.511	3.094	17.127	15.091	5.4678E-04	5.7752E-04	0.286
40	40	317.9	572.2	2.188	1.928	17.127	15.091	3.4067E-04	3.5982E-04	0.234
41	41	314.7	566.4	1.538	1.355	17.194	15.151	2.3848E-04	2.5183E-04	0.208
42	42	318.3	572.9	1.490	1.313	17.118	15.083	2.3217E-04	2.4524E-04	0.295
43	43	316.2	569.2	1.841	1.622	17.161	15.122	2.8609E-04	3.0213E-04	0.186
44	44	316.3	569.3	1.983	1.748	17.161	15.121	3.0820E-04	3.2548E-04	0.225
45	45	317.1	570.9	1.849	1.629	17.142	15.105	2.8759E-04	3.0374E-04	0.162
46	46	317.9	572.2	1.809	1.594	17.126	15.091	2.8169E-04	2.9752E-04	0.081
47	47	317.8	572.1	1.306	1.150	17.128	15.092	2.0332E-04	2.1475E-04	-0.010
48	48	317.7	571.8	0.844	0.744	17.131	15.095	1.3144E-04	1.3883E-04	-0.176
49	49	317.6	571.7	0.350	0.308	17.132	15.096	5.4500E-05	5.7563E-05	-0.470
50	50	316.6	569.9	-0.008	-0.007	17.153	15.114	-1.2641E-06	-1.3351E-06	13.361
51	51	312.2	562.0	1.036	0.913	17.246	15.196	1.6012E-04	1.6906E-04	0.452
52	52	312.4	562.2	1.071	0.943	17.243	15.194	1.6551E-04	1.7474E-04	0.312
53	53	312.5	562.5	1.730	1.525	17.240	15.191	2.6755E-04	2.8248E-04	0.330
54	54	313.4	564.2	1.817	1.601	17.226	15.174	2.8137E-04	2.9710E-04	0.309
55	55	313.6	564.4	1.878	1.654	17.217	15.171	2.9075E-04	3.0700E-04	0.347
56	56	313.0	563.4	1.940	1.709	17.229	15.181	3.0019E-04	3.1695E-04	0.350
57	57	312.5	562.5	1.968	1.734	17.240	15.191	3.0423E-04	3.2121E-04	0.392
58	58	313.0	563.3	1.973	1.738	17.231	15.182	3.0526E-04	3.2230E-04	0.423
59	59	312.8	563.1	2.099	1.850	17.233	15.185	3.2476E-04	3.4288E-04	0.425
60	60	313.0	563.5	2.446	2.155	17.229	15.181	3.7848E-04	3.9961E-04	0.412
61	61	312.7	562.9	2.925	2.577	17.236	15.187	4.5238E-04	4.7763E-04	0.392
62	62	312.5	562.6	3.080	2.713	17.239	15.190	4.7620E-04	5.0277E-04	0.405
63	63	312.8	563.1	2.635	2.321	17.233	15.185	4.0759E-04	4.3030E-04	0.466
64	64	311.7	561.0	1.432	1.262	17.258	15.206	2.2120E-04	2.3353E-04	0.488
65	65	312.1	561.7	1.195	1.053	17.249	15.199	1.8463E-04	1.9493E-04	0.382
66	66	312.0	561.6	0.825	0.727	17.250	15.200	1.2745E-04	1.3456E-04	0.279
67	67	313.1	563.6	1.025	0.903	17.228	15.180	1.5854E-04	1.6740E-04	0.221
68	68	313.6	564.4	1.396	1.230	17.218	15.171	2.1610E-04	2.2817E-04	0.218
69	69	314.2	565.5	1.573	1.386	17.205	15.160	2.4382E-04	2.5746E-04	0.208
70	70	314.7	566.5	1.380	1.216	17.193	15.149	2.1400E-04	2.2596E-04	0.172
71	71	316.0	568.8	1.337	1.178	17.166	15.125	2.0772E-04	2.1937E-04	0.179
72	72	315.6	568.1	0.861	0.759	17.174	15.133	1.3375E-04	1.4125E-04	0.007
73	73	315.5	567.8	0.360	0.317	17.178	15.136	5.5890E-05	5.9022E-05	-0.274
74	74	315.4	567.6	0.135	0.119	17.180	15.138	2.0963E-05	2.2137E-05	-0.715
75	75	314.1	565.3	-0.194	-0.171	17.207	15.162	-3.0081E-05	-3.1763E-05	0.087

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3989E-01 (SLUGS/FT2-SEC)

190

1170224

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.878	16.152	16.236
PT2/PT1	5.538E-02	5.300E-02	5.327E-02
TEMP(DEG R)	2021.4	2049.3	635.6
TT2/TT1	1.0005	1.0144	0.3146

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HI DATA TEST NO. 182 RUN NO. 49 FRAME 25 TO 52 CONSTANT SET 412

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10 0.2054E 07	302.44	1989.52	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	302.261	1989.778	0.256	0.388	759.197	-0.293	17.6052
0.070	302.261	1988.859	0.251	0.410	759.197	-0.280	17.6092
0.140	302.261	1989.256	0.288	0.613	761.938	-0.306	17.6092
0.210	301.712	1989.648	0.302	1.936	777.369	-0.306	17.6092
0.280	302.261	1990.565	0.468	5.167	950.987	-0.293	17.6092
0.350	302.261	1989.650	2.260	8.320	1525.649	-0.280	17.6052
0.420	302.261	1989.255	6.786	11.220	1846.161	-0.293	17.6052
0.490	302.261	1988.863	11.189	13.936	1913.941	-0.319	17.6052
0.560	302.261	1989.387	13.693	15.482	1967.632	-0.319	17.6052
0.630	301.712	1990.304	15.199	15.885	1967.632	-0.319	17.6092
0.700	302.444	1989.648	16.017	15.612	1984.083	-0.293	8.0702
0.770	302.261	1988.863	16.205	15.148	2003.097	-0.306	34.9198
0.840	302.261	1989.127	16.070	14.873	2007.022	-0.319	34.9279
0.910	302.444	1989.519	15.916	14.892	2027.899	-0.306	34.9319
0.980	302.444	1989.780	15.837	15.065	2001.788	-0.319	34.9359
1.050	302.627	1990.303	15.837	15.290	2012.250	-0.293	34.9238
1.120	302.810	1989.519	15.863	15.454	2032.454	-0.306	34.9279
1.190	302.627	1989.127	15.887	15.554	2033.755	-0.319	34.9238
1.260	302.810	1989.650	15.916	15.623	2034.405	-0.306	34.9359
1.330	302.810	1990.043	15.929	15.651	2031.153	-0.319	34.9319
1.400	302.810	1989.912	15.916	15.715	2034.405	-0.293	34.9238
1.470	302.810	1989.651	15.916	15.774	2027.899	-0.293	34.9279
1.540	302.810	1989.260	15.914	15.818	2038.954	-0.319	34.9238
1.610	302.993	1989.651	15.951	15.840	2038.954	-0.319	34.9359
1.680	302.810	1990.304	15.959	15.846	2033.104	-0.306	34.9359
1.750	302.993	1990.306	15.953	15.885	2016.819	-0.293	34.9359
1.820	302.810	1990.043	15.959	15.929	2045.444	-0.293	34.9279
1.890	302.810	1989.782	15.961	15.968	2029.201	-0.319	34.9279

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.7386E 06	2.0539E 06	C.305	20.57	1105.3	0.11661E 07	0.3048	1.000	RUN NO. 49
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0539E 06	2.0539E 06	1.000	302.44	1989.5	501.44	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	103	0.283	0.0585	0.0585	0.0671	0.0709	39	314	0.275	0.1381	0.1381	0.1581	0.1671
2	105	0.292	0.0000	0.0000	0.0000	0.0000	40	315	0.274	0.0881	0.0881	0.1009	0.1066
3	107	0.283	0.0655	0.0655	0.0751	0.0794	41	316	0.270	0.0634	0.0634	0.0725	0.0766
4	108	0.282	0.0816	0.0816	0.0935	0.0989	42	317	0.270	0.0376	0.0376	0.0431	0.0455
5	110	0.281	0.0891	0.0891	0.1022	0.1081	43	318	0.270	0.0194	0.0194	0.0222	0.0234
6	111	0.280	0.0887	0.0887	0.1017	0.1076	44	319	0.269	0.0025	0.0025	0.0029	0.0031
7	112	0.279	0.0841	0.0841	0.0964	0.1019	45	320	0.269	-0.0106	-0.0106	-0.0122	-0.0129
8	113	0.278	0.0721	0.0721	0.0826	0.0873	46	406	0.277	0.2779	0.2779	0.3184	0.3365
9	114	0.276	0.0472	0.0472	0.0541	0.0571	47	407	0.276	0.2715	0.2715	0.3110	0.3287
10	115	0.275	0.0239	0.0239	0.0274	0.0289	48	408	0.276	0.2480	0.2480	0.2841	0.3003
11	116	0.274	0.0101	0.0101	0.0116	0.0123	49	409	0.275	0.2298	0.2298	0.2633	0.2782
12	117	0.273	0.0039	0.0039	0.0044	0.0047	50	410	0.275	0.2077	0.2077	0.2379	0.2514
13	118	0.272	-0.0034	-0.0034	-0.0038	-0.0041	51	411	0.274	0.1792	0.1792	0.2052	0.2168
14	119	0.272	-0.0048	-0.0048	-0.0055	-0.0058	52	412	0.273	0.1336	0.1336	0.1529	0.1616
15	120	0.271	-0.0054	-0.0054	-0.0062	-0.0065	53	413	0.273	0.1256	0.1256	0.1438	0.1519
16	203	0.280	0.0501	0.0501	0.0574	0.0607	54	414	0.272	0.0804	0.0804	0.0920	0.0972
17	205	0.281	0.0515	0.0515	0.0591	0.0625	55	415	0.272	0.0538	0.0538	0.0616	0.0651
18	207	0.280	0.0696	0.0696	0.0798	0.0843	56	416	0.271	0.0356	0.0356	0.0407	0.0430
19	208	0.280	0.0864	0.0864	0.0991	0.1048	57	417	0.270	0.0223	0.0223	0.0256	0.0270
20	210	0.278	0.1034	0.1034	0.1185	0.1253	58	418	0.270	0.0108	0.0108	0.0124	0.0131
21	211	0.278	0.1005	0.1005	0.1152	0.1218	59	419	0.270	-0.0026	-0.0026	-0.0030	-0.0032
22	212	0.277	0.1001	0.1001	0.1147	0.1212	60	420	0.270	-0.0143	-0.0143	-0.0164	-0.0173
23	213	0.292	0.0000	0.0000	0.0000	0.0000	61	506	0.276	0.2545	0.2545	0.2916	0.3081
24	214	0.292	0.0000	0.0000	0.0000	0.0000	62	507	0.276	0.2422	0.2422	0.2775	0.2932
25	215	0.274	0.0415	0.0415	0.0476	0.0503	63	508	0.275	0.2213	0.2213	0.2535	0.2679
26	216	0.273	0.0235	0.0235	0.0269	0.0284	64	509	0.274	0.1897	0.1897	0.2173	0.2296
27	217	0.272	0.0104	0.0104	0.0120	0.0126	65	510	0.274	0.2011	0.2011	0.2303	0.2433
28	218	0.272	0.0027	0.0027	0.0031	0.0033	66	511	0.274	0.1916	0.1916	0.2194	0.2319
29	219	0.272	-0.0038	-0.0038	-0.0043	-0.0046	67	512	0.274	0.1619	0.1619	0.1854	0.1959
30	220	0.271	-0.0080	-0.0080	-0.0091	-0.0096	68	513	0.273	0.1345	0.1345	0.1540	0.1627
31	306	0.292	-0.0001	-0.0001	-0.0001	-0.0001	69	514	0.272	0.0864	0.0864	0.0989	0.1045
32	307	0.279	0.2785	0.2785	0.3192	0.3375	70	515	0.272	0.0543	0.0543	0.0622	0.0657
33	308	0.279	0.3030	0.3030	0.3473	0.3672	71	516	0.272	0.0356	0.0356	0.0408	0.0431
34	309	0.278	0.3013	0.3013	0.3453	0.3650	72	517	0.271	0.0214	0.0214	0.0245	0.0258
35	310	0.278	0.2963	0.2963	0.3396	0.3589	73	518	0.271	0.0081	0.0081	0.0092	0.0098
36	311	0.277	0.2880	0.2880	0.3300	0.3488	74	519	0.270	0.0001	0.0001	0.0001	0.0001
37	312	0.276	0.2435	0.2435	0.2790	0.2948	75	520	0.269	-0.0121	-0.0121	-0.0139	-0.0146
38	313	0.276	0.2046	0.2046	0.2344	0.2477							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.7366E 06	2.0534E 06	0.305	20.57	1105.3	0.11661E 07	0.3048	1.000	RUN NO.	49
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.0534E 06	2.0534E 06	1.000	302.44	1989.5	501.44	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	103	328.1	590.7	0.562	0.848	16.458	14.501	1.5510E-04	1.6402E-04	-0.026
2	105	338.7	609.6	0.000	0.000	16.237	14.307	2.4486E-16	2.5916E-16	*******
3	107	329.0	592.2	1.076	0.948	16.440	14.486	1.7367E-04	1.8367E-04	0.067
4	108	327.6	589.6	1.343	1.184	16.470	14.512	2.1628E-04	2.2870E-04	0.083
5	110	326.0	586.8	1.471	1.296	16.503	14.541	2.3636E-04	2.4990E-04	-0.043
6	111	325.2	585.3	1.466	1.292	16.520	14.557	2.3526E-04	2.4873E-04	-0.039
7	112	323.8	582.8	1.392	1.227	16.550	14.583	2.2299E-04	2.3573E-04	-0.006
8	113	322.5	580.5	1.195	1.053	16.576	14.606	1.9104E-04	2.0193E-04	-0.003
9	114	320.5	577.0	0.784	0.691	16.617	14.642	1.2507E-04	1.3218E-04	-0.067
10	115	318.9	574.0	0.398	0.351	16.652	14.673	6.3328E-05	6.6921E-05	-0.331
11	116	317.7	571.9	0.169	0.149	16.677	14.695	2.6862E-05	7.8383E-05	-1.057
12	117	316.8	570.3	0.064	0.057	16.696	14.711	1.0216E-05	1.0794E-05	-2.541
13	118	316.2	569.1	-0.056	-0.049	16.710	14.724	-8.8848E-06	-9.3869E-06	3.312
14	119	315.7	568.3	-0.080	-0.071	16.719	14.732	-1.2735E-05	-1.3454E-05	1.579
15	120	314.8	566.6	-0.091	-0.080	16.739	14.750	-1.4341E-05	-1.5150E-05	0.756
16	203	325.1	585.1	0.828	0.729	16.522	14.558	1.3279E-04	1.4039E-04	-0.103
17	205	326.1	587.0	0.850	0.749	16.501	14.540	1.3661E-04	1.4444E-04	-0.078
18	207	325.6	586.1	1.148	1.012	16.511	14.548	1.8442E-04	1.9499E-04	0.054
19	208	324.8	584.7	1.429	1.259	16.527	14.563	2.2919E-04	2.4231E-04	0.047
20	210	323.2	581.7	1.712	1.509	16.562	14.593	2.7407E-04	2.8971E-04	0.008
21	211	322.7	580.9	1.666	1.468	16.572	14.602	2.6649E-04	2.8169E-04	-0.039
22	212	321.7	579.1	1.661	1.464	16.593	14.620	2.6533E-04	2.8044E-04	0.064
23	213	338.7	609.7	0.000	0.000	16.236	14.306	1.8628E-16	1.9715E-16	*******
24	214	338.7	609.7	0.000	0.000	16.236	14.306	1.8628E-16	1.9715E-16	*******
25	215	317.8	572.1	0.693	0.610	16.675	14.693	1.1007E-04	1.1631E-04	0.103
26	216	317.0	570.6	0.392	0.345	16.692	14.708	6.2147E-05	6.5663E-05	0.010
27	217	316.3	569.3	0.175	0.154	16.707	14.721	2.7681E-05	2.9246E-05	-0.245
28	218	315.8	568.4	0.046	0.040	16.718	14.731	7.2330E-06	7.6415E-06	-1.406
29	219	315.3	567.5	-0.063	-0.055	16.728	14.739	-9.9715E-06	-1.0534E-05	1.391
30	220	314.6	566.3	-0.134	-0.118	16.743	14.752	-2.1121E-05	-2.2312E-05	0.576
31	306	338.7	609.7	-0.002	-0.001	16.236	14.306	-2.4976E-07	-2.6434E-07	0.858
32	307	324.4	584.0	4.605	4.058	16.536	14.570	7.3830E-04	7.8052E-04	0.268
33	308	323.8	582.8	5.015	4.419	16.550	14.582	8.0328E-04	8.4917E-04	0.268
34	309	323.0	581.5	4.990	4.397	16.565	14.596	7.9855E-04	8.4412E-04	0.233
35	310	322.5	580.5	4.912	4.328	16.576	14.606	7.8540E-04	8.3019E-04	0.245
36	311	321.9	579.4	4.778	4.210	16.589	14.617	7.6340E-04	8.0689E-04	0.260
37	312	320.6	577.1	4.046	3.565	16.616	14.641	6.4532E-04	6.8202E-04	0.342
38	313	320.1	576.2	3.402	2.998	16.627	14.650	5.4227E-04	5.7308E-04	0.366
39	314	318.9	574.0	2.299	2.026	16.652	14.673	3.6588E-04	3.8664E-04	0.356
40	315	317.8	572.0	1.470	1.295	16.676	14.693	2.3354E-04	2.4677E-04	0.354
41	316	313.9	565.1	1.062	0.935	16.757	14.765	1.6780E-04	1.7725E-04	0.406
42	317	313.9	565.0	0.631	0.556	16.758	14.766	9.9711E-05	1.0533E-04	0.420
43	318	313.3	563.9	0.325	0.287	16.771	14.777	5.1282E-05	5.4273E-05	0.320
44	319	312.6	562.7	0.043	0.037	16.784	14.789	6.7111E-06	7.0884E-06	-0.249
45	320	312.2	561.9	-0.179	-0.157	16.793	14.797	-2.8162E-05	-2.9745E-05	0.468
46	406	321.2	578.2	4.614	4.066	16.604	14.630	7.3655E-04	7.7848E-04	0.277
47	407	320.9	577.6	4.509	3.973	16.610	14.635	7.1943E-04	7.6036E-04	0.267
48	408	320.1	576.2	4.124	3.634	16.626	14.650	6.5727E-04	6.9462E-04	0.238
49	409	319.6	575.2	3.924	3.370	16.638	14.661	6.0904E-04	6.4362E-04	0.223
50	410	319.0	574.2	3.459	3.048	16.650	14.671	5.5042E-04	5.8164E-04	0.237
51	411	318.1	572.6	2.987	2.632	16.668	14.687	4.7478E-04	5.0168E-04	0.253
52	412	316.6	569.9	2.231	1.965	16.700	14.715	3.5364E-04	3.7384E-04	0.284
53	413	316.4	569.5	2.096	1.849	16.704	14.719	3.3270E-04	3.5151E-04	0.359
54	414	316.2	569.2	1.343	1.184	16.708	14.722	2.1295E-04	2.2499E-04	0.346
55	415	315.6	568.0	0.900	0.793	16.722	14.734	1.4256E-04	1.5061E-04	0.344
56	416	314.8	566.6	0.596	0.525	16.738	14.749	9.4276E-05	9.9593E-05	0.340
57	417	314.0	565.2	0.374	0.330	16.755	14.763	5.9178E-05	6.2512E-05	0.352
58	418	313.7	564.7	0.181	0.160	16.761	14.768	2.8617E-05	3.0228E-05	0.374
59	419	313.3	563.9	-0.044	-0.039	16.771	14.777	-6.9252E-06	-7.3149E-06	-0.225
60	420	312.9	563.3	-0.240	-0.212	16.777	14.783	-3.7888E-05	-4.0019E-05	0.191
61	506	320.8	577.5	4.227	3.725	16.611	14.637	6.7446E-04	7.1283E-04	0.272
62	507	320.0	576.1	4.028	3.549	16.628	14.651	6.4189E-04	6.7837E-04	0.249
63	508	319.1	574.5	3.684	3.246	16.647	14.668	5.8644E-04	6.1972E-04	0.226
64	509	317.8	572.1	3.164	2.788	16.675	14.693	5.0269E-04	5.3116E-04	0.163
65	510	318.4	573.2	3.350	2.952	16.662	14.681	5.3279E-04	5.6300E-04	0.193
66	511	318.1	572.5	3.194	2.815	16.669	14.688	5.0771E-04	5.3647E-04	0.197
67	512	317.8	572.0	2.699	2.379	16.676	14.693	4.2889E-04	4.5318E-04	0.257
68	513	317.0	570.6	2.246	1.979	16.692	14.708	3.5638E-04	3.7654E-04	0.294
69	514	316.3	569.4	1.944	1.272	16.706	14.720	2.2897E-04	2.4192E-04	0.289
70	515	315.3	567.5	0.909	0.801	16.728	14.740	1.4392E-04	1.5204E-04	0.261
71	516	315.3	567.6	0.596	0.525	16.727	14.738	9.4341E-05	9.9666E-05	0.261
72	517	314.8	566.7	0.358	0.315	16.737	14.748	5.6624E-05	5.9818E-05	0.209
73	518	314.2	565.6	0.135	0.119	16.751	14.759	2.1372E-05	2.2576E-05	0.341
74	519	313.4	564.1	0.002	0.001	16.768	14.775	2.4975E-07	2.6381E-07	-12.492
75	520	312.9	563.3	-0.163	-0.179	16.786	14.791	-3.2082E-05	-3.3886E-05	-0.044

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.4196E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.465	15.961	15.968
PT2/PT1	5.444E-02	5.277E-02	5.280E-02
TEMP(DEG R)	1980.1	2029.2	637.6
TT2/TT1	0.9953	1.0199	0.3205

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 50 FRAME 26 TO 52 CONSTANT SET 411

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10 0.4923E 06	74.52	2022.23	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	74.517	2021.582	0.088	0.124	676.220	-0.286	17.6074
0.070	74.517	2021.973	0.088	0.136	676.220	-0.299	17.6074
0.140	74.517	2021.841	0.086	0.219	677.193	-0.286	17.6115
0.210	74.517	2022.623	0.088	0.608	685.920	-0.286	17.6074
0.280	74.517	2021.710	0.186	1.384	887.984	-0.299	17.6034
0.350	74.517	2021.320	0.761	2.129	1355.906	-0.286	17.6074
0.420	74.517	2021.323	1.881	2.829	1663.344	-0.299	17.6074
0.490	74.517	2021.843	2.802	3.452	1787.041	-0.299	17.6115
0.560	74.517	2022.362	3.289	3.813	1842.105	-0.286	17.6155
0.630	74.517	2021.842	3.649	3.905	1882.514	-0.286	17.6034
0.700	74.517	2020.932	3.871	3.774	1891.897	-0.299	34.8961
0.770	74.517	2021.193	3.977	3.566	1903.933	-0.299	34.9122
0.840	74.517	2021.713	3.990	3.441	1935.223	-0.325	34.9243
0.910	74.517	2022.231	3.977	3.435	1935.887	-0.312	34.9284
0.980	75.066	2021.580	3.951	3.493	1937.877	-0.286	34.9203
1.050	74.517	2020.540	3.940	3.552	1955.752	-0.286	34.9243
1.120	74.517	2020.933	3.945	3.591	1986.054	-0.299	34.9284
1.190	74.517	2021.450	3.966	3.630	1988.680	-0.312	34.9284
1.260	74.517	2021.710	3.974	3.663	1993.928	-0.312	34.9324
1.330	74.517	2021.449	3.974	3.680	2001.134	-0.299	34.9203
1.400	75.066	2020.539	3.977	3.674	2012.250	-0.299	34.9243
1.470	74.517	2020.932	3.974	3.691	2008.329	-0.312	34.9284
1.540	74.517	2020.802	3.972	3.730	2012.903	-0.312	34.9324
1.610	74.517	2021.710	3.972	3.746	2016.819	-0.299	34.9284
1.680	74.517	2021.059	3.972	3.746	2027.899	-0.299	34.9243
1.750	74.517	2020.539	3.974	3.746	2027.899	-0.286	34.9243
1.820	74.517	2020.670	3.974	3.746	2018.776	-0.312	34.9243

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6153E C6	4.9234E 05	0.305	5.07	1123.5	0.11871E 07	0.3048	1.000	RUN NO.	50
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	HAW/HT		
5.10	4.9234E C5	4.9234E 05	1.000	74.52	2022.2	510.48	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	103	0.270	C.0691	0.0691	0.0790	0.0835	39	314	0.266	0.0228	0.0228	0.0261	0.0275
2	105	0.287	C.CCC0	0.0000	0.0000	0.0000	40	315	0.265	0.0095	0.0095	0.0109	0.0115
3	107	0.271	0.0688	0.0688	0.0787	0.0832	41	316	0.264	0.0039	0.0039	0.0045	0.0047
4	108	0.270	0.0675	0.0675	0.0773	0.0816	42	317	0.264	0.0003	0.0003	0.0004	0.0004
5	110	0.269	C.0568	0.0568	0.0649	C.0686	43	318	0.264	-0.0008	-0.0008	-0.0009	-0.CC09
6	111	0.269	0.0494	0.0494	0.0565	0.0597	44	319	0.264	-0.0021	-0.0021	-0.0024	-0.0026
7	112	0.269	0.0367	0.0367	0.0419	0.0443	45	320	0.264	-0.0022	-0.C022	-0.0025	-0.0026
8	113	0.268	0.0241	0.0241	0.0275	C.0291	46	406	0.266	0.0927	0.0927	0.1060	0.1119
9	114	0.267	C.0088	0.0088	0.0101	0.0106	47	407	0.266	0.1239	0.1239	0.1416	0.1496
10	115	0.267	0.0022	C.0022	0.C026	0.0027	48	408	0.266	0.1317	0.1317	0.1506	0.1590
11	116	0.266	0.0005	0.0005	0.0005	0.0006	49	409	0.266	0.1237	0.1237	0.1414	0.1493
12	117	0.266	C.CC04	0.0004	0.0005	C.0005	50	410	0.266	0.1094	C.1094	0.1251	0.1321
13	118	0.265	-0.0002	-0.0002	-0.0003	-0.0003	51	411	0.266	0.0947	0.0947	0.1082	0.1143
14	119	0.265	-0.0001	-C.0001	-0.C002	-0.0002	52	412	0.265	0.0683	0.0683	0.0780	0.0824
15	120	0.265	-C.0001	-0.0001	-0.0002	-0.C002	53	413	0.265	0.0543	0.0543	0.0620	0.0655
16	203	0.268	C.0589	0.0589	0.0674	C.0711	54	414	0.265	0.0271	0.0271	0.0310	0.0327
17	205	0.268	0.0558	0.0558	0.0638	0.0674	55	415	0.265	0.0125	0.0125	0.0142	0.0150
18	207	0.268	0.0570	0.0570	0.0652	0.0688	56	416	0.265	0.0049	0.0049	0.0056	0.0059
19	208	0.268	0.0598	0.0598	0.0683	C.0722	57	417	0.265	0.0004	0.C004	0.0005	0.0005
20	210	0.268	C.0532	0.0532	0.0608	0.0642	58	418	0.265	-0.0011	-0.0011	-0.0012	-0.0013
21	211	0.267	0.0474	C.0474	0.0542	0.0573	59	419	0.265	-0.0038	-0.0038	-0.0044	-0.0046
22	212	C.267	0.0368	0.0368	0.0421	0.0445	60	420	0.265	-0.0050	-0.C050	-0.0057	-0.0060
23	213	0.287	C.CCC0	0.0000	0.0000	C.CC00	61	506	0.267	0.1149	0.1149	0.1314	0.1388
24	214	0.287	C.0000	0.C000	0.0000	0.0000	62	507	0.266	0.1339	0.1339	0.1532	0.1617
25	215	0.266	0.0024	0.0024	0.C027	0.0029	63	508	0.266	0.1324	0.1324	0.1514	0.1599
26	216	0.269	0.C004	0.C004	0.C005	0.C005	64	509	0.266	0.1093	0.1093	0.1250	0.1319
27	217	0.285	-C.CC01	-0.0001	-0.0001	-C.C001	65	510	0.266	0.1142	0.1142	0.1306	0.1379
28	218	0.265	-0.0003	-0.0003	-0.C003	-0.0003	66	511	0.266	0.1086	0.1086	0.1241	0.1310
29	219	0.265	-C.0004	-C.0004	-0.CC04	-0.0004	67	512	0.266	0.0856	0.0856	0.0978	0.1033
30	220	0.264	C.CC01	0.0001	0.0001	0.CC01	68	513	0.266	0.0649	0.0649	0.0742	0.0784
31	306	0.287	-C.0001	-0.0001	-0.0001	-C.C001	69	514	0.266	C.0301	C.0301	0.0344	0.0364
32	307	0.267	0.0630	C.0630	0.0721	0.0761	70	515	0.265	0.0117	0.0117	0.0133	0.0141
33	308	0.267	0.0815	0.0815	0.0931	0.0984	71	516	0.265	0.0036	0.0036	0.0041	0.0043
34	309	C.267	0.0845	0.0845	0.0966	C.1020	72	517	0.265	-0.0009	-0.0009	-0.0010	-0.0010
35	310	0.267	C.0825	0.0825	0.0944	C.0997	73	518	0.265	-0.0056	-0.0056	-0.0064	-0.CC68
36	311	0.267	0.0779	0.0779	0.0891	0.0941	74	519	0.265	-0.0049	-0.0049	-0.0056	-0.0059
37	312	C.266	C.0584	0.0584	0.0667	0.0705	75	520	0.265	-0.0102	-0.0102	-0.0117	-0.0123
38	313	0.266	C.0438	0.0438	0.0501	C.0529							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6153E 06	4.9234E 05	0.305	5.07	1123.5	0.11871E 07	0.3048	1.000	RUN NO. 50
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.9234E 05	4.9234E 05	1.000	74.52	2022.2	510.48	1.0000	1.000	

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	103	319.3	574.8	0.585	0.515	8.466	7.459	3.7290E-04	3.9390E-04	0.214
2	105	338.7	609.7	0.000	0.000	8.264	7.281	6.4213E-16	6.7930E-16	*******
3	107	319.6	575.3	0.582	0.513	8.459	7.454	3.7139E-04	3.9232E-04	0.222
4	108	319.2	574.6	0.572	0.504	8.467	7.460	3.6462E-04	3.8514E-04	0.137
5	110	318.5	573.3	0.481	0.424	8.474	7.467	3.0635E-04	3.2358E-04	0.057
6	111	318.1	572.6	0.419	0.369	8.478	7.471	2.6674E-04	2.8173E-04	0.111
7	112	317.5	571.4	0.311	0.274	8.485	7.477	1.9787E-04	2.0898E-04	0.285
8	113	316.9	570.4	0.204	0.180	8.491	7.482	1.2994E-04	1.3723E-04	0.392
9	114	316.0	568.8	0.075	0.066	8.501	7.490	4.7496E-05	5.0158E-05	0.474
10	115	315.2	567.4	0.019	0.017	8.509	7.497	1.2066E-05	1.2742E-05	0.334
11	116	314.6	566.3	0.004	0.004	8.515	7.503	2.5770E-06	2.7211E-06	-0.239
12	117	314.1	565.4	0.003	0.003	8.520	7.508	2.1714E-06	2.2928E-06	0.271
13	118	313.7	564.7	-0.002	-0.002	8.524	7.511	-1.2513E-06	-1.3212E-06	1.930
14	119	313.5	564.3	-0.001	-0.001	8.527	7.513	-7.6879E-07	-8.1173E-07	1.874
15	120	313.0	563.4	-0.001	-0.001	8.532	7.518	-7.6776E-07	-8.1061E-07	0.912
16	203	316.7	570.1	0.500	0.441	8.493	7.484	3.1785E-04	3.3568E-04	0.150
17	205	317.2	570.9	0.474	0.417	8.488	7.479	3.0107E-04	3.1797E-04	0.136
18	207	317.0	570.6	0.484	0.426	8.490	7.481	3.0743E-04	3.2469E-04	0.146
19	208	316.8	570.3	0.507	0.447	8.492	7.482	3.2246E-04	3.4055E-04	0.049
20	210	316.2	569.1	0.452	0.398	8.499	7.488	2.8703E-04	3.0313E-04	-0.048
21	211	315.8	568.5	0.403	0.355	8.502	7.492	2.5591E-04	2.7025E-04	0.018
22	212	315.5	567.9	0.313	0.276	8.506	7.495	1.9885E-04	2.0998E-04	0.182
23	213	338.7	609.7	0.000	0.000	8.263	7.281	8.3719E-16	8.8564E-16	*******
24	214	338.7	609.7	0.000	0.000	8.263	7.281	8.3719E-16	8.8564E-16	*******
25	215	313.9	565.0	0.020	0.018	8.522	7.509	1.2956E-05	1.3680E-05	0.359
26	216	318.1	572.6	0.003	0.003	8.479	7.471	2.1566E-06	2.2779E-06	0.219
27	217	313.3	563.9	-0.000	-0.000	8.529	7.515	-3.0006E-07	-3.1682E-07	3.666
28	218	313.1	563.6	-0.002	-0.002	8.531	7.517	-1.4133E-06	-1.4922E-06	1.258
29	219	312.9	563.3	-0.003	-0.003	8.533	7.518	-1.9684E-06	-2.0783E-06	1.512
30	220	312.6	562.7	0.001	0.001	8.536	7.521	4.0351E-07	4.2602E-07	2.220
31	306	338.7	609.7	-0.001	-0.001	8.263	7.281	-3.9967E-07	-4.2280E-07	1.211
32	307	315.9	568.6	0.536	0.472	8.502	7.491	3.4003E-04	3.5908E-04	0.121
33	308	315.7	568.2	0.693	0.610	8.504	7.493	4.3953E-04	4.6415E-04	0.122
34	309	315.4	567.7	0.719	0.633	8.507	7.496	4.5601E-04	4.8155E-04	0.105
35	310	315.2	567.4	0.702	0.619	8.509	7.497	4.4533E-04	4.7026E-04	0.144
36	311	315.0	567.1	0.663	0.584	8.510	7.499	4.2050E-04	4.4404E-04	0.227
37	312	314.6	566.3	0.497	0.438	8.515	7.503	3.1491E-04	3.3253E-04	0.375
38	313	314.5	566.0	0.373	0.329	8.517	7.504	2.3655E-04	2.4978E-04	0.427
39	314	314.1	565.4	0.194	0.171	8.520	7.508	1.2311E-04	1.2999E-04	0.449
40	315	313.7	564.7	0.081	0.071	8.524	7.511	5.1279E-05	5.4144E-05	0.458
41	316	312.2	562.0	0.033	0.029	8.540	7.525	2.1142E-05	2.2320E-05	0.886
42	317	312.2	562.0	0.003	0.003	8.540	7.525	1.8669E-06	1.9710E-06	3.917
43	318	312.1	561.7	-0.006	-0.006	8.542	7.526	-4.0868E-06	-4.3146E-06	-0.312
44	319	311.9	561.5	-0.018	-0.016	8.543	7.528	-1.1550E-05	-1.2194E-05	0.509
45	320	311.6	561.0	-0.019	-0.016	8.546	7.530	-1.1752E-05	-1.2407E-05	0.511
46	406	315.0	566.9	0.789	0.695	8.511	7.500	5.0005E-04	5.2803E-04	0.231
47	407	314.8	566.7	1.055	0.929	8.513	7.501	6.6846E-04	7.0586E-04	0.273
48	408	314.7	566.4	1.121	0.988	8.514	7.502	7.1069E-04	7.5045E-04	0.240
49	409	314.5	566.2	1.053	0.928	8.516	7.503	6.6747E-04	7.0481E-04	0.200
50	410	314.4	565.9	0.932	0.821	8.517	7.505	5.9049E-04	6.2351E-04	0.206
51	411	314.2	565.5	0.806	0.711	8.519	7.507	5.1074E-04	5.3929E-04	0.239
52	412	313.7	564.6	0.582	0.513	8.525	7.511	3.6834E-04	3.8892E-04	0.345
53	413	313.5	564.2	0.463	0.408	8.527	7.514	2.9278E-04	3.0914E-04	0.440
54	414	313.6	564.4	0.231	0.204	8.526	7.512	1.4626E-04	1.5443E-04	0.444
55	415	313.5	564.2	0.106	0.094	8.527	7.513	6.7184E-05	7.0936E-05	0.479
56	416	313.2	563.7	0.042	0.037	8.530	7.516	2.6450E-05	2.7927E-05	0.737
57	417	312.9	563.2	0.003	0.003	8.533	7.519	2.1987E-06	2.3214E-06	3.409
58	418	312.8	563.0	-0.009	-0.008	8.534	7.520	-5.6966E-06	-6.0144E-06	-1.247
59	419	312.7	562.8	-0.033	-0.029	8.535	7.521	-2.0688E-05	-2.1842E-05	-0.113
60	420	312.6	562.7	-0.042	-0.037	8.536	7.521	-2.6731E-05	-2.8222E-05	-0.005
61	506	315.1	567.1	0.978	0.862	8.510	7.499	6.2024E-04	6.5496E-04	0.296
62	507	314.9	566.8	1.140	1.005	8.512	7.500	7.2277E-04	7.6321E-04	0.314
63	508	314.5	566.1	1.128	0.994	8.516	7.504	7.1465E-04	7.5462E-04	0.295
64	509	314.0	565.2	0.931	0.821	8.522	7.509	5.8973E-04	6.2269E-04	0.187
65	510	314.3	565.7	0.973	0.857	8.519	7.506	6.1637E-04	6.5083E-04	0.195
66	511	314.2	565.6	0.925	0.815	8.519	7.506	5.8570E-04	6.1844E-04	0.227
67	512	314.2	565.6	0.729	0.642	8.519	7.506	4.6179E-04	4.8761E-04	0.339
68	513	314.1	565.4	0.553	0.487	8.520	7.508	3.5021E-04	3.6978E-04	0.422
69	514	313.9	565.0	0.257	0.226	8.522	7.509	1.6248E-04	1.7156E-04	0.445
70	515	313.6	564.5	0.100	0.088	8.526	7.512	6.2987E-05	6.6506E-05	0.481
71	516	313.7	564.7	0.031	0.027	8.524	7.511	1.9357E-05	2.0439E-05	0.496
72	517	313.6	564.5	-0.007	-0.006	8.525	7.512	-4.6602E-06	-4.8572E-06	-0.013
73	518	313.5	564.3	-0.048	-0.042	8.527	7.513	-3.0399E-05	-3.2097E-05	0.598
74	519	313.3	564.0	-0.042	-0.037	8.529	7.515	-2.6294E-05	-2.7762E-05	0.363
75	520	313.0	563.3	-0.087	-0.077	8.532	7.518	-5.5017E-05	-5.8088E-05	0.359

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3191E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.868	3.974	3.746
PT2/PT1	5.190E-02	5.334E-02	5.028E-02
TEMP(DEG R)	1986.7	2018.8	640.7
TT2/TT1	0.9824	0.9983	0.3168

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 51 FRAME 25 TO 52 CONSTANT SET 411

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1007E 07		148.76	1993.61	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	148.941	1994.923	8.202	0.404	713.640	-0.286	17.6155
0.070	148.941	1994.006	0.194	0.412	713.640	-0.273	17.6074
0.140	148.759	1993.742	0.194	0.529	715.530	-0.273	17.6115
0.210	148.576	1994.400	0.207	1.282	724.940	-0.299	17.6115
0.280	148.759	1994.400	0.342	2.886	931.307	-0.286	17.6115
0.350	148.759	1995.054	1.383	4.409	1439.155	-0.299	17.6074
0.420	148.941	1993.610	3.627	5.869	1771.300	-0.286	17.6074
0.490	148.941	1994.134	5.565	7.175	1875.802	-0.286	17.6115
0.560	148.759	1994.271	6.703	7.914	1907.939	-0.312	17.6115
0.630	148.941	1993.872	7.452	8.062	1919.936	-0.299	17.6155
0.700	148.941	1995.184	7.947	7.809	1945.167	-0.299	27.9968
0.770	148.941	1994.003	8.122	7.450	1946.492	-0.273	34.9203
0.840	148.941	1993.480	8.106	7.267	1959.055	-0.299	34.9284
0.910	148.759	1993.611	8.061	7.283	1970.927	-0.312	34.9324
0.980	148.941	1994.531	8.027	7.370	1977.510	-0.299	34.9365
1.050	148.941	1995.185	8.014	7.475	1986.711	-0.299	34.9365
1.120	148.941	1994.002	8.000	7.548	1988.680	-0.286	34.9243
1.190	148.941	1993.610	7.995	7.609	1997.860	-0.299	34.9284
1.260	148.941	1993.481	8.000	7.661	2001.788	-0.312	34.9324
1.330	148.941	1993.611	8.014	7.695	2014.861	-0.299	34.9324
1.400	148.941	1994.525	8.022	7.725	1997.204	-0.299	34.9365
1.470	149.124	1993.871	8.022	7.739	1992.616	-0.286	34.9243
1.540	148.941	1993.478	8.027	7.753	1995.239	-0.286	34.9324
1.610	148.759	1993.348	8.024	7.787	1995.239	-0.299	34.9324
1.680	148.941	1993.609	8.027	7.814	1999.824	-0.299	34.9324
1.750	148.941	1994.001	8.035	7.834	2009.636	-0.312	34.9365
1.820	148.941	1993.739	8.027	7.851	2021.385	-0.273	34.9324
1.890	148.941	1993.348	8.027	7.859	2014.209	-0.286	34.9324

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.3030E 06	1.0067E 06	0.305	10.12	1107.6	0.11687E 07	0.3048	1.000	RUN NO. 51
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0067E 06	1.0067E 06	1.000	148.76	1993.6	502.57	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	103	0.278	0.0637	0.0637	0.0729	0.0771	39	314	0.272	0.0782	0.0782	0.0895	0.0946
2	105	0.291	0.0000	0.0000	0.0000	0.0000	40	315	0.272	0.0477	0.0477	0.0547	0.0577
3	107	0.278	0.0677	0.0677	0.0776	0.0821	41	316	0.270	0.0328	0.0328	0.0376	0.0397
4	108	0.278	0.0753	0.0753	0.0863	0.0912	42	317	0.270	0.0142	0.0142	0.0163	0.0172
5	110	0.277	0.0733	0.0733	0.0840	0.0888	43	318	0.270	0.0029	0.0029	0.0034	0.0036
6	111	0.276	0.0683	0.0683	0.0782	0.0827	44	319	0.269	-0.0043	-0.0043	-0.0049	-0.0051
7	112	0.275	0.0583	0.0583	0.0667	0.0705	45	320	0.269	-0.0075	-0.0075	-0.0086	-0.0091
8	113	0.275	0.0444	0.0444	0.0508	0.0537	46	406	0.273	0.2497	0.2497	0.2859	0.3021
9	114	0.273	0.0226	0.0226	0.0259	0.0274	47	407	0.273	0.2541	0.2541	0.2909	0.3073
10	115	0.273	0.0087	0.0087	0.0100	0.0105	48	408	0.273	0.2409	0.2409	0.2758	0.2914
11	116	0.272	0.0031	0.0031	0.0035	0.0037	49	409	0.272	0.2280	0.2280	0.2610	0.2758
12	117	0.271	0.0010	0.0010	0.0012	0.0012	50	410	0.272	0.2066	0.2066	0.2365	0.2499
13	118	0.271	-0.0017	-0.0017	-0.0020	-0.0021	51	411	0.272	0.1820	0.1820	0.2083	0.2201
14	119	0.270	-0.0019	-0.0019	-0.0022	-0.0023	52	412	0.271	0.1425	0.1425	0.1631	0.1723
15	120	0.270	-0.0020	-0.0020	-0.0023	-0.0025	53	413	0.271	0.1331	0.1331	0.1524	0.1609
16	203	0.276	0.0511	0.0511	0.0586	0.0619	54	414	0.271	0.0850	0.0850	0.0972	0.1027
17	205	0.276	0.0507	0.0507	0.0581	0.0614	55	415	0.270	0.0546	0.0546	0.0625	0.0660
18	207	0.276	0.0589	0.0589	0.0675	0.0713	56	416	0.270	0.0342	0.0342	0.0391	0.0413
19	208	0.276	0.0659	0.0659	0.0755	0.0798	57	417	0.270	0.0199	0.0199	0.0227	0.0240
20	210	0.275	0.0641	0.0641	0.0734	0.0775	58	418	0.269	0.0082	0.0082	0.0094	0.0099
21	211	0.275	0.0568	0.0568	0.0650	0.0687	59	419	0.269	-0.0022	-0.0022	-0.0025	-0.0026
22	212	0.274	0.0480	0.0480	0.0550	0.0581	60	420	0.269	-0.0093	-0.0093	-0.0106	-0.0112
23	213	0.291	0.0000	0.0000	0.0000	0.0000	61	506	0.273	0.2531	0.2531	0.2898	0.3062
24	214	0.291	0.0000	0.0000	0.0000	0.0000	62	507	0.273	0.2489	0.2489	0.2850	0.3011
25	215	0.272	0.0069	0.0069	0.0079	0.0084	63	508	0.272	0.2374	0.2374	0.2718	0.2871
26	216	0.275	0.0015	0.0015	0.0017	0.0018	64	509	0.272	0.2102	0.2102	0.2405	0.2541
27	217	0.271	-0.0003	-0.0003	-0.0003	-0.0003	65	510	0.272	0.2199	0.2199	0.2517	0.2659
28	218	0.271	-0.0007	-0.0007	-0.0008	-0.0009	66	511	0.271	0.2119	0.2119	0.2425	0.2562
29	219	0.271	-0.0007	-0.0007	-0.0008	-0.0009	67	512	0.271	0.1838	0.1838	0.2103	0.2222
30	220	0.270	-0.0013	-0.0013	-0.0015	-0.0016	68	513	0.271	0.1550	0.1550	0.1774	0.1874
31	306	0.291	-0.0000	-0.0000	-0.0000	-0.0000	69	514	0.271	0.1001	0.1001	0.1145	0.1210
32	307	0.275	0.1068	0.1068	0.1223	0.1292	70	515	0.270	0.0649	0.0649	0.0742	0.0784
33	308	0.275	0.1464	0.1464	0.1677	0.1772	71	516	0.270	0.0422	0.0422	0.0483	0.0510
34	309	0.274	0.1595	0.1595	0.1827	0.1930	72	517	0.270	0.0266	0.0266	0.0305	0.0322
35	310	0.274	0.1599	0.1599	0.1831	0.1935	73	518	0.270	0.0111	0.0111	0.0127	0.0134
36	311	0.274	0.1589	0.1589	0.1820	0.1923	74	519	0.270	0.0025	0.0025	0.0029	0.0031
37	312	0.273	0.1357	0.1357	0.1554	0.1642	75	520	0.269	-0.0084	-0.0084	-0.0096	-0.0102
38	313	0.273	0.1145	0.1145	0.1311	0.1385							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	RLL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.3038E 06	1.0067E 06	0.305	10.12	1107.6	0.1168E 07	0.3048	1.000	RUN NO. 51
MACH	RE/FT	RLL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0067E 06	1.0067E 06	1.000	148.76	1993.6	502.57	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.508)	ST(0.874)	TIME(SEC)
1	103	323.3	581.9	0.742	0.653	11.650	10.265	2.4093E-04	2.5467E-04	0.131
2	105	338.7	609.7	0.000	0.000	11.423	10.065	4.2419E-16	4.4893E-16	*******
3	107	323.9	583.1	0.788	0.695	11.640	10.257	2.5636E-04	2.7099E-04	0.185
4	108	323.0	581.4	0.878	0.773	11.654	10.269	2.8506E-04	3.0131E-04	0.133
5	110	322.0	579.6	0.856	0.754	11.669	10.282	2.7751E-04	2.9331E-04	-0.002
6	111	321.4	578.5	0.798	0.703	11.678	10.290	2.5848E-04	2.7318E-04	0.011
7	112	320.3	576.6	0.681	0.600	11.694	10.304	2.2045E-04	2.3297E-04	0.119
8	113	319.6	575.3	0.519	0.458	11.704	10.313	1.6788E-04	1.7740E-04	0.184
9	114	318.2	572.8	0.265	0.234	11.725	10.331	8.5661E-05	9.0510E-05	0.115
10	115	317.1	570.8	0.102	0.090	11.741	10.346	3.2921E-05	3.4782E-05	-0.188
11	116	316.3	569.4	0.036	0.032	11.752	10.356	1.1720E-05	1.2382E-05	-0.680
12	117	315.6	568.1	0.012	0.011	11.763	10.365	3.8953E-06	4.1150E-06	-1.629
13	118	315.0	567.0	-0.021	-0.018	11.772	10.373	-6.5955E-06	-6.9667E-06	1.642
14	119	314.6	566.2	-0.022	-0.020	11.779	10.379	-7.1379E-06	-7.5399E-06	1.138
15	120	314.0	565.1	-0.024	-0.021	11.787	10.386	-7.7198E-06	-8.1542E-06	0.828
16	203	321.0	577.7	0.597	0.526	11.684	10.295	1.9343E-04	2.0442E-04	0.019
17	205	321.7	579.1	0.592	0.521	11.673	10.286	1.9178E-04	2.0269E-04	0.043
18	207	321.4	578.5	0.688	0.606	11.678	10.290	2.2284E-04	2.3552E-04	0.082
19	208	320.8	577.5	0.770	0.679	11.686	10.297	2.4936E-04	2.6353E-04	0.032
20	210	319.9	575.8	0.750	0.660	11.700	10.309	2.4241E-04	2.5617E-04	-0.046
21	211	319.5	575.1	0.664	0.585	11.706	10.314	2.1476E-04	2.2694E-04	-0.036
22	212	318.8	573.9	0.562	0.496	11.716	10.323	1.8164E-04	1.9193E-04	0.131
23	213	338.7	609.7	0.000	0.000	11.423	10.065	4.3778E-16	4.6332E-16	*******
24	214	338.7	609.7	0.000	0.000	11.423	10.065	4.3778E-16	4.6332E-16	*******
25	215	316.5	569.7	0.082	0.072	11.750	10.353	2.6240E-06	2.7722E-05	0.142
26	216	320.3	576.6	0.017	0.015	11.694	10.304	5.5251E-06	5.8389E-06	-0.004
27	217	315.4	567.7	-0.003	-0.003	11.767	10.368	-1.0656E-06	-1.1257E-06	3.296
28	218	315.1	567.1	-0.008	-0.007	11.771	10.372	-2.6898E-06	-2.8414E-06	1.499
29	219	314.8	566.6	-0.008	-0.007	11.775	10.376	-2.6886E-06	-2.8401E-06	1.231
30	220	314.3	565.7	-0.016	-0.014	11.782	10.382	-5.0433E-06	-5.3273E-06	0.779
31	306	338.7	609.7	-0.000	-0.000	11.423	10.065	-1.5181E-07	-1.6067E-07	2.410
32	307	320.3	576.6	1.248	1.100	11.693	10.304	4.0396E-04	4.2690E-04	0.185
33	308	319.7	575.4	1.713	1.510	11.703	10.312	5.5392E-04	5.8535E-04	0.241
34	309	319.3	574.7	1.868	1.646	11.709	10.317	6.0351E-04	6.3773E-04	0.212
35	310	319.0	574.2	1.873	1.651	11.713	10.321	6.0511E-04	6.3940E-04	0.225
36	311	318.7	573.7	1.862	1.641	11.717	10.324	6.0130E-04	6.3537E-04	0.255
37	312	318.0	572.4	1.592	1.403	11.728	10.334	5.1344E-04	5.4250E-04	0.359
38	313	317.6	571.7	1.344	1.184	11.734	10.339	4.3324E-04	4.5774E-04	0.395
39	314	316.9	570.5	0.918	0.809	11.744	10.348	2.9579E-04	3.1250E-04	0.397
40	315	316.4	569.5	0.561	0.494	11.752	10.355	1.8061E-04	1.9081E-04	0.369
41	316	313.9	565.1	0.387	0.341	11.788	10.387	1.2418E-04	1.3117E-04	0.452
42	317	313.9	565.0	0.168	0.148	11.789	10.388	5.3835E-05	5.6864E-05	0.453
43	318	313.6	564.5	0.035	0.031	11.793	10.391	1.1153E-05	1.1799E-05	0.240
44	319	313.3	564.0	-0.050	-0.044	11.797	10.395	-1.6116E-05	-1.7022E-05	0.748
45	320	313.0	563.5	-0.089	-0.078	11.801	10.398	-2.8384E-05	-2.9980E-05	0.625
46	406	317.8	572.0	2.730	2.581	11.731	10.337	9.4473E-04	9.9819E-04	0.327
47	407	317.5	571.5	2.982	2.627	11.736	10.341	9.6120E-04	1.0156E-03	0.312
48	408	317.2	570.9	2.828	2.492	11.740	10.345	9.1124E-04	9.6275E-04	0.282
49	409	316.9	570.4	2.678	2.360	11.744	10.348	8.6258E-04	9.1132E-04	0.242
50	410	316.6	570.0	2.428	2.139	11.748	10.351	7.8161E-04	8.2576E-04	0.222
51	411	316.3	569.4	2.139	1.885	11.753	10.356	6.8849E-04	7.2736E-04	0.218
52	412	315.5	568.0	1.677	1.477	11.764	10.366	5.3904E-04	5.6965E-04	0.265
53	413	315.1	567.1	1.567	1.381	11.771	10.372	5.0353E-04	5.3191E-04	0.360
54	414	315.1	567.2	1.000	0.881	11.771	10.372	3.2137E-04	3.3949E-04	0.361
55	415	314.7	566.5	0.643	0.566	11.776	10.376	2.0643E-04	2.1806E-04	0.356
56	416	314.2	565.6	0.403	0.355	11.784	10.383	1.2918E-04	1.3645E-04	0.367
57	417	313.9	565.0	0.234	0.206	11.788	10.387	7.5105E-05	7.9331E-05	0.382
58	418	313.5	564.4	0.097	0.085	11.794	10.392	3.1080E-05	3.2828E-05	0.371
59	419	313.4	564.2	-0.026	-0.023	11.795	10.393	-8.2083E-06	-8.6699E-06	0.183
60	420	313.2	563.8	-0.110	-0.097	11.798	10.396	-3.5145E-05	-3.7120E-05	0.244
61	506	317.5	571.5	2.971	2.618	11.735	10.340	9.5758E-04	1.0117E-03	0.312
62	507	317.2	571.0	2.922	2.575	11.739	10.344	9.4165E-04	9.9489E-04	0.293
63	508	316.8	570.3	2.788	2.457	11.745	10.349	8.9805E-04	9.4880E-04	0.281
64	509	315.9	568.7	2.471	2.177	11.758	10.361	7.9486E-04	8.3972E-04	0.217
65	510	316.0	568.8	2.585	2.278	11.758	10.360	8.3163E-04	8.7857E-04	0.233
66	511	315.8	568.4	2.492	2.196	11.760	10.362	8.0150E-04	8.4672E-04	0.239
67	512	315.7	568.3	2.162	1.905	11.762	10.364	6.9514E-04	7.3436E-04	0.309
68	513	315.2	567.4	1.824	1.608	11.768	10.370	5.8632E-04	6.1938E-04	0.362
69	514	314.9	566.9	1.178	1.038	11.773	10.374	3.7855E-04	3.9988E-04	0.380
70	515	314.5	566.1	0.764	0.673	11.779	10.379	2.4539E-04	2.5921E-04	0.404
71	516	314.4	565.9	0.497	0.438	11.781	10.380	1.5963E-04	1.6862E-04	0.375
72	517	314.2	565.6	0.314	0.276	11.784	10.383	1.0068E-04	1.0635E-04	0.424
73	518	314.1	565.4	0.131	0.115	11.785	10.384	4.2046E-05	4.4413E-05	0.628
74	519	313.7	564.6	0.030	0.026	11.792	10.390	9.6307E-06	1.0172E-05	0.598
75	520	313.2	563.8	-0.099	-0.088	11.798	10.396	-3.1848E-05	-3.3638E-05	-0.178

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6616E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.995	8.027	7.859
PT2/PT1	5.374E-02	5.346E-02	5.283E-02
TEMP(DEG R)	2007.7	2014.2	634.6
TT2/TT1	1.0071	1.0103	0.3183

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 52 FRAME 26 TO 51 CONSTANT SET 541

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.4990E 06		74.88	2011.94	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	74.883	2010.766	0.093	0.136	610.200	-0.280	17.6092
0.070	74.700	2011.028	0.085	0.144	610.200	-0.293	17.6173
0.140	74.883	2011.417	0.085	0.211	610.200	-0.293	17.6132
0.210	74.883	2011.288	0.096	0.553	610.200	-0.280	17.6092
0.280	74.883	2011.027	0.151	1.254	610.200	-0.280	17.6052
0.350	74.700	2011.157	0.585	2.023	610.200	-0.280	17.6092
0.420	74.883	2011.028	1.565	2.663	610.200	-0.293	17.6132
0.490	74.883	2011.419	2.570	3.266	610.200	-0.293	17.6173
0.560	74.883	2011.549	3.137	3.655	610.200	-0.280	17.6092
0.630	74.883	2011.157	3.481	3.803	610.200	-0.280	17.6052
0.700	74.883	2011.157	3.719	3.689	610.200	-0.280	22.5966
0.770	74.883	2011.158	3.883	3.430	610.200	-0.280	23.0001
0.840	74.883	2011.549	3.920	3.238	610.200	-0.293	34.9319
0.910	74.883	2011.939	3.901	3.205	610.200	-0.280	34.9279
0.980	74.883	2011.157	3.880	3.258	610.200	-0.280	34.9238
1.050	74.883	2011.157	3.867	3.316	610.200	-0.293	34.9279
1.120	74.883	2011.418	3.867	3.355	610.200	-0.306	34.9359
1.190	74.883	2011.549	3.880	3.374	610.200	-0.293	34.9319
1.260	74.883	2011.938	3.880	3.394	610.200	-0.280	34.9279
1.330	74.883	2011.288	3.875	3.411	610.200	-0.293	34.9238
1.400	74.883	2011.288	3.867	3.413	610.200	-0.293	34.9279
1.470	74.883	2011.288	3.851	3.413	610.200	-0.293	34.9319
1.540	74.883	2011.678	3.849	3.413	610.200	-0.293	34.9319
1.610	74.883	2012.068	3.849	3.436	610.200	-0.280	34.9279
1.680	74.883	2011.157	3.854	3.463	610.200	-0.280	34.9238
1.750	74.883	2011.288	3.862	3.469	610.200	-0.293	34.9238

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6372E 06	4.9903E 05	0.305	5.09	1117.7	0.11805E 07	0.3048	1.000	RUN NO.	52
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	4.9903E 05	4.9903E 05	1.000	74.88	2011.9	507.63	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.267	0.0508	0.0508	0.0581	0.0614	39	208	0.270	0.0546	0.0546	0.0625	0.0660
2	2	0.288	-0.0000	-0.0000	-0.0000	-0.0000	40	210	0.269	0.0406	0.0406	0.0464	0.0490
3	3	0.267	0.0515	0.0515	0.0589	0.0623	41	211	0.269	0.0336	0.0336	0.0384	0.0406
4	4	0.267	0.0536	0.0536	0.0613	0.0648	42	212	0.269	0.0226	0.0226	0.0259	0.0273
5	5	0.268	0.0530	0.0530	0.0606	0.0640	43	213	0.288	0.0000	0.0000	0.0000	0.0000
6	6	0.268	0.0537	0.0537	0.0614	0.0648	44	214	0.288	0.0000	0.0000	0.0000	0.0000
7	7	0.268	0.0563	0.0563	0.0644	0.0680	45	215	0.268	-0.0006	-0.0006	-0.0007	-0.0007
8	8	0.268	0.0563	0.0563	0.0644	0.0680	46	306	0.288	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.268	0.0571	0.0571	0.0653	0.0690	47	307	0.270	0.0516	0.0516	0.0591	0.0624
10	10	0.268	0.0575	0.0575	0.0658	0.0695	48	308	0.270	0.0437	0.0437	0.0500	0.0528
11	11	0.269	0.0562	0.0562	0.0643	0.0679	49	309	0.269	0.0347	0.0347	0.0397	0.0420
12	12	0.269	0.0576	0.0576	0.0659	0.0696	50	310	0.269	0.0293	0.0293	0.0335	0.0354
13	13	0.269	0.0587	0.0587	0.0672	0.0709	51	311	0.269	0.0213	0.0213	0.0244	0.0258
14	14	0.269	0.0627	0.0627	0.0717	0.0758	52	312	0.268	0.0116	0.0116	0.0133	0.0140
15	15	0.269	0.0595	0.0595	0.0681	0.0719	53	313	0.268	0.0076	0.0076	0.0087	0.0092
16	16	0.270	0.0615	0.0615	0.0704	0.0743	54	314	0.268	0.0014	0.0014	0.0016	0.0017
17	17	0.270	0.0618	0.0618	0.0707	0.0747	55	315	0.268	-0.0006	-0.0006	-0.0007	-0.0008
18	18	0.270	0.0635	0.0635	0.0726	0.0767	56	316	0.268	-0.0007	-0.0007	-0.0008	-0.0009
19	19	0.270	0.0638	0.0638	0.0730	0.0771	57	317	0.267	-0.0016	-0.0016	-0.0019	-0.0020
20	20	0.269	0.0692	0.0692	0.0791	0.0836	58	318	0.267	-0.0012	-0.0012	-0.0014	-0.0014
21	21	0.270	0.0731	0.0731	0.0837	0.0884	59	319	0.267	-0.0041	-0.0041	-0.0046	-0.0049
22	22	0.269	0.0741	0.0741	0.0847	0.0895	60	320	0.267	-0.0046	-0.0046	-0.0052	-0.0055
23	23	0.269	0.0747	0.0747	0.0854	0.0903	61	506	0.269	0.0431	0.0431	0.0493	0.0521
24	24	0.269	0.0782	0.0782	0.0895	0.0945	62	507	0.268	0.0397	0.0397	0.0454	0.0480
25	25	0.269	0.0803	0.0803	0.0919	0.0970	63	508	0.268	0.0312	0.0312	0.0357	0.0377
26	103	0.275	0.0658	0.0658	0.0754	0.0796	64	509	0.268	0.0183	0.0183	0.0209	0.0220
27	105	0.272	0.0705	0.0705	0.0807	0.0852	65	510	0.267	0.0275	0.0275	0.0314	0.0332
28	107	0.272	0.0686	0.0686	0.0785	0.0829	66	511	0.268	0.0257	0.0257	0.0294	0.0311
29	108	0.271	0.0594	0.0594	0.0680	0.0718	67	512	0.268	0.0172	0.0172	0.0196	0.0207
30	110	0.270	0.0419	0.0419	0.0480	0.0507	68	513	0.267	0.0108	0.0108	0.0123	0.0130
31	111	0.270	0.0340	0.0340	0.0389	0.0411	69	514	0.267	0.0023	0.0023	0.0026	0.0028
32	112	0.269	0.0195	0.0195	0.0223	0.0236	70	515	0.267	-0.0002	-0.0002	-0.0003	-0.0003
33	113	0.269	0.0096	0.0096	0.0110	0.0116	71	516	0.267	-0.0028	-0.0028	-0.0032	-0.0034
34	114	0.268	0.0010	0.0010	0.0011	0.0012	72	517	0.267	-0.0015	-0.0015	-0.0017	-0.0018
35	115	0.267	-0.0004	-0.0004	-0.0005	-0.0005	73	518	0.267	-0.0021	-0.0021	-0.0024	-0.0026
36	203	0.271	0.0624	0.0624	0.0714	0.0754	74	519	0.267	-0.0043	-0.0043	-0.0049	-0.0052
37	205	0.271	0.0627	0.0627	0.0718	0.0758	75	520	0.266	-0.0062	-0.0062	-0.0071	-0.0075
38	207	0.271	0.0606	0.0606	0.0693	0.0732							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6372E C6	4.9903E 05	0.305	5.09	1117.7	0.11805E 07	0.3048	1.C00	RUN NO.	52
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	4.9903E 05	4.9903E 05	1.000	74.88	2011.9	507.63	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	313.5	564.4	0.431	0.380	8.482	7.474	2.7251E-04	2.8777E-04	0.004
2	2	338.7	609.7	-0.000	-0.000	8.219	7.242	-1.1593E-13	-1.2266E-13	*******
3	3	314.4	565.8	0.437	0.385	8.474	7.467	2.7647E-04	2.9197E-04	0.024
4	4	314.3	565.8	0.454	0.400	8.474	7.467	2.8761E-04	3.0373E-04	0.026
5	5	314.8	566.6	0.449	0.395	8.469	7.463	2.8410E-04	3.0004E-04	0.015
6	6	314.9	566.7	0.455	0.401	8.469	7.462	2.8793E-04	3.0408E-04	0.018
7	7	315.1	567.1	0.477	0.420	8.467	7.460	3.0201E-04	3.1896E-04	0.038
8	8	315.2	567.4	0.476	0.420	8.465	7.459	3.0191E-04	3.1885E-04	0.066
9	9	315.2	567.4	0.484	0.426	8.465	7.459	3.0642E-04	3.2361E-04	0.071
10	10	315.4	567.8	0.487	0.429	8.463	7.457	3.0858E-04	3.2590E-04	0.074
11	11	315.6	568.1	0.476	0.419	8.461	7.455	3.0162E-04	3.1856E-04	0.109
12	12	315.9	568.7	0.487	0.429	8.457	7.452	3.0900E-04	3.2636E-04	0.092
13	13	316.0	568.8	0.496	0.437	8.457	7.451	3.1494E-04	3.3264E-04	0.088
14	14	316.6	569.9	0.530	0.467	8.450	7.446	3.3633E-04	3.5525E-04	0.098
15	15	316.8	570.2	0.503	0.443	8.449	7.445	3.1910E-04	3.3705E-04	0.102
16	16	316.9	570.3	0.519	0.458	8.448	7.444	3.2990E-04	3.4845E-04	0.143
17	17	316.9	570.4	0.522	0.460	8.448	7.443	3.3149E-04	3.5014E-04	0.109
18	18	317.0	570.6	0.536	0.472	8.447	7.443	3.4048E-04	3.5964E-04	0.126
19	19	316.8	570.3	0.539	0.475	8.448	7.444	3.4239E-04	3.6165E-04	0.163
20	20	316.5	569.7	0.585	0.515	8.452	7.447	3.7105E-04	3.9192E-04	0.193
21	21	316.9	570.3	0.618	0.544	8.448	7.444	3.9244E-04	4.1451E-04	0.214
22	22	316.5	569.6	0.626	0.552	8.452	7.447	3.9730E-04	4.1963E-04	0.207
23	23	316.4	569.5	0.631	0.556	8.453	7.448	4.0069E-04	4.2321E-04	0.212
24	24	316.2	569.1	0.661	0.583	8.455	7.450	4.1948E-04	4.4305E-04	0.213
25	25	315.7	568.2	0.680	0.599	8.460	7.455	4.3091E-04	4.5511E-04	0.231
26	103	323.5	582.3	0.551	0.486	8.378	7.383	3.5321E-04	3.7326E-04	0.504
27	105	319.6	575.3	0.593	0.523	8.419	7.418	3.7816E-04	3.9951E-04	0.199
28	107	319.1	574.4	0.578	0.509	8.424	7.423	3.6803E-04	3.8880E-04	0.185
29	108	318.2	572.7	0.501	0.441	8.434	7.431	3.1870E-04	3.3666E-04	0.092
30	110	317.4	571.3	0.354	0.312	8.442	7.439	2.2499E-04	2.3766E-04	0.123
31	111	317.0	570.5	0.287	0.253	8.447	7.443	1.8240E-04	1.9266E-04	0.288
32	112	315.9	568.6	0.165	0.145	8.458	7.452	1.0457E-04	1.1044E-04	0.564
33	113	315.9	568.7	0.081	0.072	8.457	7.452	5.1575E-05	5.4473E-05	0.902
34	114	315.1	567.2	0.008	0.007	8.466	7.460	5.1516E-06	5.4406E-06	2.266
35	115	314.3	565.7	-0.003	-0.003	8.475	7.467	-2.1504E-06	-2.2709E-06	-3.052
36	203	318.3	573.0	0.526	0.464	8.433	7.430	3.3475E-04	3.5361E-04	0.142
37	205	318.4	573.1	0.529	0.466	8.432	7.430	3.3646E-04	3.5543E-04	0.157
38	207	318.1	572.6	0.511	0.450	8.435	7.432	3.2507E-04	3.4339E-04	0.139
39	208	317.6	571.7	0.461	0.406	8.440	7.437	2.9312E-04	3.0962E-04	0.074
40	210	316.8	570.2	0.343	0.302	8.449	7.445	2.1756E-04	2.2979E-04	0.035
41	211	316.3	569.4	0.284	0.250	8.453	7.448	1.8019E-04	1.9032E-04	0.184
42	212	316.2	569.2	0.191	0.169	8.455	7.450	1.2135E-04	1.2817E-04	0.476
43	213	338.7	609.7	0.000	0.000	8.219	7.242	1.0289E-15	1.0886E-15	*******
44	214	338.7	609.6	0.000	0.000	8.220	7.243	1.0390E-07	1.0993E-07	1.176
45	215	314.7	566.4	-0.005	-0.004	8.471	7.464	-3.1005E-06	-3.2744E-06	-0.847
46	306	338.7	609.7	-0.000	-0.000	8.219	7.242	-5.0078E-08	-5.2984E-08	-0.534
47	307	317.3	571.1	0.436	0.384	8.443	7.440	2.7709E-04	2.9269E-04	0.065
48	308	316.9	570.5	0.369	0.325	8.447	7.443	2.3454E-04	2.4773E-04	-0.072
49	309	316.7	570.0	0.293	0.258	8.450	7.445	1.8626E-04	1.9674E-04	-0.114
50	310	316.5	569.6	0.248	0.218	8.452	7.447	1.5724E-04	1.6608E-04	-0.058
51	311	316.2	569.1	0.180	0.159	8.455	7.450	1.1438E-04	1.2081E-04	0.155
52	312	315.5	567.9	0.098	0.086	8.462	7.456	6.2210E-05	6.5703E-05	0.662
53	313	314.9	566.8	0.064	0.057	8.468	7.462	4.0813E-05	4.3103E-05	0.919
54	314	315.1	567.1	0.012	0.010	8.467	7.460	7.5022E-06	7.9231E-06	1.713
55	315	314.8	566.6	-0.005	-0.005	8.470	7.463	-3.4003E-06	-3.5910E-06	-1.160
56	316	314.5	566.2	-0.006	-0.005	8.472	7.465	-3.8871E-06	-4.1051E-06	-0.751
57	317	314.3	565.8	-0.014	-0.012	8.474	7.467	-8.7835E-06	-9.2758E-06	0.230
58	318	314.3	565.7	-0.010	-0.009	8.475	7.468	-6.3591E-06	-6.7155E-06	-0.062
59	319	314.1	565.4	-0.034	-0.030	8.477	7.469	-2.1801E-05	-2.3023E-05	0.256
60	320	314.2	565.6	-0.039	-0.034	8.476	7.468	-2.4527E-05	-2.5901E-05	0.061
61	506	315.7	568.3	0.365	0.321	8.460	7.454	2.3113E-04	2.4411E-04	-0.048
62	507	315.5	567.9	0.336	0.296	8.462	7.456	2.1306E-04	2.2502E-04	-0.100
63	508	315.1	567.1	0.264	0.233	8.467	7.460	1.6757E-04	1.7697E-04	-0.243
64	509	314.5	566.1	0.155	0.136	8.472	7.465	9.7895E-05	1.0338E-04	-0.671
65	510	314.4	565.9	0.233	0.205	8.474	7.467	1.4740E-04	1.5566E-04	-0.189
66	511	314.5	566.1	0.218	0.192	8.472	7.465	1.3799E-04	1.4573E-04	-0.034
67	512	314.5	566.1	0.145	0.128	8.473	7.466	9.2106E-05	9.7270E-05	0.362
68	513	314.3	565.7	0.091	0.081	8.475	7.467	5.7856E-05	6.1099E-05	0.641
69	514	314.0	565.1	0.020	0.017	8.478	7.470	1.2345E-05	1.3036E-05	1.185
70	515	313.5	564.2	-0.002	-0.002	8.483	7.475	-1.2002E-06	-1.2674E-06	-5.129
71	516	313.6	564.4	-0.024	-0.021	8.482	7.474	-1.5089E-05	-1.5934E-05	0.889
72	517	313.4	564.2	-0.012	-0.011	8.484	7.475	-7.8938E-06	-8.3358E-06	0.340
73	518	313.4	564.2	-0.018	-0.016	8.484	7.475	-1.1391E-05	-1.2028E-05	-0.828
74	519	313.3	563.9	-0.036	-0.032	8.485	7.477	-2.2877E-05	-2.4157E-05	0.248
75	520	313.1	563.6	-0.053	-0.046	8.487	7.478	-3.3305E-05	-3.5168E-05	-0.245

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3307E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.638	3.862	3.469
PT2/PT1	4.859E-02	5.157E-02	4.632E-02
TEMP(DEG R)	1960.4	610.2	2037.0
TT2/TT1	0.9744	0.3033	1.0125

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 53 FRAME 25 TO 52 CONSTANT SET 541

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9665E 06	149.33	2047.07	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.334	2047.849	0.168	0.217	610.200	-0.279	17.6056
0.070	149.334	2047.849	0.157	0.225	610.200	-0.279	17.6056
0.140	148.968	2047.464	0.157	0.314	610.200	-0.292	17.6097
0.210	149.151	2047.721	0.165	0.884	610.200	-0.292	17.6137
0.280	149.334	2048.366	0.244	2.271	610.200	-0.292	17.6137
0.350	149.334	2047.720	1.025	3.827	610.200	-0.305	17.6016
0.420	149.334	2046.684	3.026	5.323	610.200	-0.292	17.6056
0.490	149.151	2047.721	5.154	6.774	610.200	-0.305	17.6056
0.560	149.151	2047.719	6.477	7.661	610.200	-0.305	17.6137
0.630	149.334	2047.717	7.350	7.928	610.200	-0.305	17.6137
0.700	149.334	2047.850	7.851	7.775	610.200	-0.292	34.1987
0.770	149.334	2046.943	8.041	7.441	610.200	-0.305	34.9168
0.840	149.334	2046.943	8.025	7.205	610.200	-0.331	34.9087
0.910	149.334	2047.074	7.962	7.185	610.200	-0.292	34.9289
0.980	149.334	2047.589	7.919	7.294	610.200	-0.305	34.9249
1.050	149.334	2047.328	7.896	7.424	610.200	-0.292	34.9249
1.120	149.334	2046.812	7.882	7.533	610.200	-0.292	34.9249
1.190	148.968	2046.943	7.882	7.600	610.200	-0.318	34.9208
1.260	149.334	2046.943	7.904	7.652	610.200	-0.318	34.9289
1.330	149.334	2047.458	7.909	7.680	610.200	-0.318	34.9249
1.400	149.334	2047.458	7.909	7.700	610.200	-0.305	34.9208
1.470	149.334	2046.552	7.909	7.719	610.200	-0.292	34.9249
1.540	149.151	2046.683	7.917	7.775	610.200	-0.318	34.9249
1.610	149.334	2046.552	7.922	7.802	610.200	-0.318	34.9289
1.680	149.334	2047.458	7.922	7.802	610.200	-0.318	34.9329
1.750	149.334	2047.200	7.909	7.822	610.200	-0.305	34.9249
1.820	149.334	2046.422	7.901	7.841	610.200	-0.305	34.9208
1.890	149.334	2046.943	7.896	7.878	610.200	-0.318	34.9208

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1710E 06	9.6652E 05	0.305	10.16	1137.3	0.12031E 07	0.3048	1.000	RUN NO. 53
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.6652E 05	9.6652E 05	1.000	149.33	2047.1	517.36	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.264	0.2159	0.2159	0.2468	0.2606	39	208	0.268	0.0379	0.0379	0.0433	0.0457
2	2	0.283	0.0000	0.0000	0.0000	0.0000	40	210	0.267	0.0227	0.0227	0.0259	0.0274
3	3	0.265	0.1871	0.1871	0.2138	0.2258	41	211	0.265	0.0246	0.0246	0.0281	0.0297
4	4	0.265	0.1755	0.1755	0.2007	0.2119	42	212	0.265	0.0148	0.0148	0.0169	0.0178
5	5	0.265	0.1571	0.1571	0.1796	0.1896	43	213	0.283	0.0000	0.0000	0.0000	0.0000
6	6	0.265	0.1439	0.1439	0.1645	0.1737	44	214	0.283	-0.0000	-0.0000	-0.0000	-0.0000
7	7	0.265	0.1189	0.1189	0.1359	0.1435	45	215	0.263	-0.0064	-0.0064	-0.0073	-0.0077
8	8	0.266	0.0958	0.0958	0.1095	0.1156	46	306	0.283	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.266	0.0795	0.0795	0.0909	0.0960	47	307	0.266	0.0269	0.0269	0.0307	0.0325
10	10	0.266	0.0679	0.0679	0.0776	0.0819	48	308	0.266	0.0214	0.0214	0.0245	0.0259
11	11	0.266	0.0571	0.0571	0.0652	0.0689	49	309	0.266	0.0134	0.0134	0.0153	0.0161
12	12	0.266	0.0515	0.0515	0.0588	0.0621	50	310	0.265	0.0097	0.0097	0.0111	0.0118
13	13	0.267	0.0438	0.0438	0.0501	0.0529	51	311	0.265	0.0007	0.0007	0.0008	0.0008
14	14	0.267	0.0457	0.0457	0.0522	0.0551	52	312	0.264	-0.0097	-0.0097	-0.0111	-0.0117
15	15	0.267	0.0455	0.0455	0.0521	0.0550	53	313	0.264	0.0079	0.0079	0.0090	0.0095
16	16	0.267	0.0492	0.0492	0.0563	0.0594	54	314	0.264	0.0005	0.0005	0.0006	0.0006
17	17	0.267	0.0531	0.0531	0.0608	0.0642	55	315	0.263	-0.0026	-0.0026	-0.0030	-0.0031
18	18	0.267	0.0558	0.0558	0.0638	0.0674	56	316	0.263	-0.0038	-0.0038	-0.0044	-0.0046
19	19	0.267	0.0569	0.0569	0.0651	0.0687	57	317	0.262	-0.0054	-0.0054	-0.0062	-0.0065
20	20	0.267	0.0597	0.0597	0.0683	0.0721	58	318	0.262	-0.0048	-0.0048	-0.0055	-0.0058
21	21	0.268	0.0570	0.0570	0.0652	0.0688	59	319	0.262	-0.0101	-0.0101	-0.0116	-0.0122
22	22	0.267	0.0600	0.0600	0.0687	0.0725	60	320	0.262	-0.0122	-0.0122	-0.0140	-0.0147
23	23	0.267	0.0609	0.0609	0.0696	0.0735	61	506	0.265	0.1265	0.1265	0.1446	0.1527
24	24	0.267	0.0643	0.0643	0.0735	0.0777	62	507	0.265	0.1198	0.1198	0.1369	0.1446
25	25	0.266	0.0661	0.0661	0.0755	0.0797	63	508	0.264	0.1052	0.1052	0.1203	0.1270
26	103	0.274	0.0569	0.0569	0.0652	0.0689	64	509	0.264	0.0773	0.0773	0.0884	0.0933
27	105	0.271	0.0583	0.0583	0.0667	0.0704	65	510	0.264	0.0912	0.0912	0.1042	0.1100
28	107	0.271	0.0559	0.0559	0.0639	0.0675	66	511	0.263	0.0820	0.0820	0.0937	0.0989
29	108	0.270	0.0474	0.0474	0.0542	0.0573	67	512	0.263	0.0521	0.0521	0.0596	0.0629
30	110	0.269	0.0334	0.0334	0.0382	0.0403	68	513	0.263	0.0297	0.0297	0.0339	0.0358
31	111	0.268	0.0255	0.0255	0.0292	0.0308	69	514	0.262	0.0039	0.0039	0.0044	0.0047
32	112	0.267	0.0129	0.0129	0.0147	0.0156	70	515	0.262	-0.0045	-0.0045	-0.0051	-0.0054
33	113	0.267	0.0058	0.0058	0.0067	0.0070	71	516	0.262	-0.0039	-0.0039	-0.0044	-0.0047
34	114	0.265	-0.0020	-0.0020	-0.0023	-0.0024	72	517	0.262	-0.0067	-0.0067	-0.0077	-0.0081
35	115	0.265	-0.0036	-0.0036	-0.0042	-0.0044	73	518	0.262	-0.0069	-0.0069	-0.0078	-0.0083
36	203	0.268	0.0512	0.0512	0.0586	0.0619	74	519	0.261	-0.0083	-0.0083	-0.0095	-0.0100
37	205	0.269	0.0499	0.0499	0.0571	0.0603	75	520	0.261	-0.0127	-0.0127	-0.0145	-0.0153
38	207	0.268	0.0456	0.0456	0.0521	0.0551							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAN/HT	TEST NO.	182
5.10	3.1710E 06	9.6652E 05	0.305	10.16	1137.3	0.12631E 07	0.3048	1.000	RUN NO.	53
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAN/HT			
5.10	9.6652E 05	9.6652E 05	1.000	149.33	2047.1	517.36	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	QW(W/CM2)	QW(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	316.8	570.3	2.643	2.329	12.241	10.786	8.3016E-04	8.7647E-04	0.371
2	2	338.7	609.7	0.000	0.000	11.918	10.501	4.6493E-16	4.9167E-16	*******
3	3	317.4	571.4	2.488	2.016	12.232	10.778	7.1921E-04	7.5936E-04	0.360
4	4	317.6	571.6	2.147	1.892	12.231	10.777	6.7487E-04	7.1256E-04	0.345
5	5	317.9	572.1	1.921	1.692	12.226	10.773	6.0396E-04	6.3770E-04	0.317
6	6	317.8	572.0	1.759	1.550	12.227	10.774	5.5320E-04	5.8410E-04	0.297
7	7	317.9	572.3	1.454	1.281	12.225	10.772	4.5715E-04	4.8269E-04	0.252
8	8	318.4	573.2	1.170	1.031	12.218	10.765	3.6831E-04	3.8890E-04	0.204
9	9	318.4	573.1	0.971	0.856	12.218	10.766	3.0567E-04	3.2276E-04	0.138
10	10	318.5	573.3	0.829	0.731	12.217	10.764	2.6098E-04	2.7557E-04	0.075
11	11	318.8	573.8	0.697	0.614	12.213	10.761	2.1942E-04	2.3169E-04	-0.008
12	12	319.0	574.1	0.628	0.554	12.210	10.759	1.9787E-04	2.0894E-04	-0.092
13	13	319.5	575.1	0.535	0.471	12.202	10.752	1.6846E-04	1.7789E-04	-0.189
14	14	319.4	575.0	0.557	0.491	12.203	10.752	1.7560E-04	1.8543E-04	-0.190
15	15	319.4	575.0	0.556	0.490	12.203	10.752	1.7507E-04	1.8487E-04	-0.125
16	16	319.6	575.3	0.600	0.529	12.201	10.750	1.8921E-04	1.9980E-04	-0.054
17	17	319.9	575.7	0.648	0.571	12.197	10.747	2.0433E-04	2.1578E-04	-0.009
18	18	320.3	576.5	0.680	0.600	12.191	10.742	2.1463E-04	2.2666E-04	0.031
19	19	320.0	576.1	0.694	0.612	12.194	10.744	2.1889E-04	2.3116E-04	0.054
20	20	320.0	576.0	0.728	0.641	12.194	10.745	2.2951E-04	2.4237E-04	0.082
21	21	320.6	577.1	0.695	0.612	12.186	10.737	2.1920E-04	2.3149E-04	0.047
22	22	320.1	576.1	0.732	0.645	12.194	10.744	2.3088E-04	2.4382E-04	0.077
23	23	319.8	575.6	0.743	0.654	12.198	10.748	2.3415E-04	2.4726E-04	0.085
24	24	319.7	575.5	0.785	0.691	12.199	10.749	2.4733E-04	2.6118E-04	0.102
25	25	319.0	574.3	0.806	0.711	12.209	10.758	2.5398E-04	2.6819E-04	0.137
26	103	328.1	590.6	0.688	0.606	12.075	10.639	2.1915E-04	2.3157E-04	0.450
27	105	324.7	584.5	0.706	0.622	12.125	10.684	2.2410E-04	2.3674E-04	0.088
28	107	324.1	583.4	0.678	0.597	12.133	10.691	2.1485E-04	2.2696E-04	0.059
29	108	323.1	581.5	0.576	0.507	12.149	10.705	1.8231E-04	1.9256E-04	-0.072
30	110	321.8	579.2	0.406	0.358	12.168	10.721	1.2837E-04	1.3558E-04	-0.051
31	111	321.2	578.1	0.311	0.274	12.177	10.730	9.8177E-05	1.0369E-04	0.085
32	112	320.1	576.2	0.157	0.138	12.193	10.744	4.9523E-05	5.2298E-05	0.432
33	113	319.3	574.7	0.071	0.063	12.205	10.755	2.2448E-05	2.3704E-05	0.782
34	114	318.0	572.4	-0.025	-0.022	12.224	10.771	-7.7064E-06	-8.1369E-06	0.295
35	115	316.9	570.3	-0.045	-0.039	12.241	10.786	-1.4014E-05	-1.4796E-05	0.550
36	203	321.0	577.9	0.624	0.550	12.179	10.731	1.9698E-04	2.0803E-04	-0.007
37	205	321.7	579.0	0.607	0.535	12.170	10.723	1.9194E-04	2.0272E-04	-0.018
38	207	321.3	578.4	0.555	0.489	12.175	10.727	1.7533E-04	1.8517E-04	-0.089
39	208	320.7	577.3	0.461	0.407	12.184	10.735	1.4562E-04	1.5379E-04	-0.255
40	210	319.8	575.7	0.277	0.244	12.197	10.747	8.7257E-05	9.2145E-05	-0.578
41	211	317.8	572.0	0.301	0.265	12.227	10.774	9.4499E-05	9.9777E-05	-0.039
42	212	317.4	571.2	0.181	0.159	12.234	10.779	5.6807E-05	5.9978E-05	0.332
43	213	338.7	609.7	0.000	0.000	11.918	10.501	5.6630E-15	5.9887E-15	*******
44	214	338.7	609.6	-0.000	-0.000	11.918	10.502	-1.0257E-07	-1.0847E-07	1.091
45	215	314.9	566.9	-0.078	-0.069	12.269	10.811	-2.4553E-05	-2.5919E-05	0.298
46	306	338.7	609.7	-0.000	-0.000	11.918	10.501	-1.4818E-07	-1.5670E-07	1.217
47	307	319.2	574.5	0.328	0.289	12.206	10.756	1.0340E-04	1.0919E-04	-0.496
48	308	318.7	573.6	0.262	0.230	12.214	10.762	8.2332E-05	8.6937E-05	-0.850
49	309	318.1	572.6	0.163	0.144	12.222	10.769	5.1416E-05	5.4289E-05	-1.425
50	310	317.9	572.2	0.119	0.105	12.225	10.772	3.7449E-05	3.9541E-05	-1.493
51	311	317.3	571.2	0.008	0.007	12.234	10.780	2.6030E-06	2.7483E-06	-12.453
52	312	316.3	569.4	-0.119	-0.104	12.249	10.793	-3.7211E-05	-3.9285E-05	0.689
53	313	316.2	569.1	0.097	0.085	12.251	10.795	3.0400E-05	3.2094E-05	1.021
54	314	315.9	568.6	0.006	0.006	12.256	10.799	2.0045E-06	2.1161E-06	4.559
55	315	315.2	567.3	-0.032	-0.028	12.266	10.808	-9.9429E-06	-1.0496E-05	-0.037
56	316	314.5	566.1	-0.047	-0.041	12.276	10.817	-1.4728E-05	-1.5547E-05	0.268
57	317	314.0	565.2	-0.067	-0.059	12.283	10.823	-2.0838E-05	-2.1995E-05	0.308
58	318	313.7	564.7	-0.059	-0.052	12.288	10.827	-1.8564E-05	-1.9595E-05	0.387
59	319	313.6	564.5	-0.124	-0.110	12.289	10.828	-3.8935E-05	-4.1098E-05	0.262
60	320	313.5	564.3	-0.150	-0.132	12.291	10.830	-4.6957E-05	-4.9565E-05	0.240
61	506	317.4	571.3	1.547	1.363	12.233	10.779	4.8631E-04	5.1345E-04	0.256
62	507	317.1	570.7	1.466	1.292	12.238	10.783	4.6061E-04	4.8631E-04	0.244
63	508	316.6	569.9	1.289	1.135	12.245	10.789	4.0453E-04	4.2709E-04	0.199
64	509	315.7	568.3	0.948	0.835	12.258	10.801	2.9725E-04	3.1381E-04	0.035
65	510	315.8	568.4	1.118	0.985	12.257	10.800	3.5060E-04	3.7013E-04	0.166
66	511	315.6	568.1	1.005	0.885	12.260	10.802	3.1504E-04	3.3259E-04	0.227
67	512	315.4	567.7	0.639	0.563	12.262	10.805	2.0036E-04	2.1151E-04	0.503
68	513	314.8	566.7	0.364	0.321	12.271	10.813	1.1415E-04	1.2050E-04	0.713
69	514	314.3	565.7	0.048	0.042	12.280	10.820	1.4909E-05	1.5737E-05	1.272
70	515	313.8	564.8	-0.055	-0.049	12.287	10.826	-1.7299E-05	-1.8260E-05	0.541
71	516	313.8	564.8	-0.048	-0.042	12.287	10.826	-1.4969E-05	-1.5779E-05	-0.013
72	517	313.4	564.1	-0.083	-0.073	12.292	10.831	-2.5841E-05	-2.7275E-05	0.454
73	518	313.3	564.0	-0.084	-0.074	12.294	10.832	-2.6400E-05	-2.7866E-05	-0.140
74	519	313.0	563.3	-0.102	-0.090	12.299	10.837	-3.1929E-05	-3.3700E-05	0.308
75	520	312.7	562.9	-0.156	-0.137	12.302	10.840	-4.8620E-05	-5.1317E-05	0.091

FREE-STREAM DENSITY-VELOCITY PRODUCT = 7.6194E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

RUN 53

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.060	7.896	7.878
PT2/PT1	5.397E-02	5.287E-02	5.275E-02
TEMP(DEG R)	2060.3	610.2	2118.2
TT2/TT1	1.0065	0.2981	1.0347

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALI . *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 54 FRAME 26 TO 51 CONSTANT SET1541

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5183E 06	75.04	1969.56	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.225	1968.777	0.102	0.133	655.600	-0.279	17.6056
0.070	74.493	1968.908	0.097	0.133	655.600	-0.292	17.6097
0.140	75.042	1968.909	0.094	0.152	655.600	-0.279	17.6137
0.210	75.042	1969.829	0.094	0.247	657.579	-0.279	17.6137
0.280	75.042	1969.038	0.105	0.719	673.295	-0.279	17.6097
0.350	75.042	1968.513	0.216	1.545	896.393	-0.279	17.6137
0.420	74.493	1968.645	0.800	2.212	1339.796	-0.292	17.6097
0.490	74.493	1968.645	1.826	2.748	1635.340	-0.279	17.6137
0.560	74.493	1969.432	2.734	3.263	1759.636	-0.279	17.6137
0.630	75.042	1969.432	3.187	3.610	1810.906	-0.279	17.6097
0.700	75.225	1968.380	3.442	3.757	1835.339	-0.279	17.6097
0.770	74.493	1968.513	3.665	3.688	1854.262	-0.292	17.6097
0.840	75.042	1968.512	3.824	3.454	1872.443	-0.279	31.9476
0.910	75.042	1969.563	3.877	3.249	1887.208	-0.279	34.9329
0.980	75.225	1969.169	3.896	3.177	1906.604	-0.279	34.9249
1.050	75.042	1968.381	3.877	3.190	1913.941	-0.279	34.9249
1.120	74.493	1968.117	3.859	3.235	1913.941	-0.292	34.9249
1.190	75.225	1968.642	3.848	3.274	1928.582	-0.292	34.9329
1.260	75.042	1969.561	3.851	3.304	1932.568	-0.292	34.9289
1.330	75.042	1968.905	3.874	3.357	1951.785	-0.279	34.9289
1.400	75.042	1968.248	3.885	3.377	1953.108	-0.279	34.9289
1.470	75.042	1968.117	3.890	3.388	1958.394	-0.292	34.9249
1.540	75.042	1968.248	3.877	3.396	1959.055	-0.279	34.9289
1.610	75.225	1969.298	3.877	3.404	1967.632	-0.292	34.9329
1.680	75.042	1968.902	3.885	3.416	1966.313	-0.279	34.9289
1.750	75.042	1967.980	3.885	3.441	1978.825	-0.279	34.9249

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7005E 06	5.1833E 05	0.305	5.10	1094.2	0.11533E 07	0.3048	1.000	RUN NO. 54
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.1833E 05	5.1833E 05	1.000	75.04	1969.6	495.93	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.262	0.2427	0.2427	0.2773	0.2927	39	208	0.265	0.0733	0.0733	0.0838	0.0885
2	2	0.295	0.0000	0.0000	0.0000	0.0000	40	210	0.265	0.0748	0.0748	0.0855	0.0903
3	3	0.263	0.2144	0.2144	0.2450	0.2586	41	211	0.264	0.0708	0.0708	0.0809	0.0855
4	4	0.263	0.2115	0.2115	0.2417	0.2551	42	212	0.264	0.0604	0.0604	0.0690	0.0729
5	5	0.263	0.2069	0.2069	0.2364	0.2495	43	GAP	0.260	0.0000	0.0000	0.0000	0.0000
6	6	0.263	0.2049	0.2049	0.2341	0.2471	44	214	0.295	-0.0001	-0.0001	-0.0001	-0.0001
7	7	0.263	0.2035	0.2035	0.2325	0.2455	45	215	0.262	0.0132	0.0132	0.0150	0.0159
8	8	0.263	0.2011	0.2011	0.2298	0.2426	46	306	0.295	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.263	0.1981	0.1981	0.2263	0.2389	47	307	0.264	0.0938	0.0938	0.1072	0.1132
10	10	0.263	0.1903	0.1903	0.2174	0.2295	48	308	0.264	0.1230	0.1230	0.1405	0.1484
11	11	0.263	0.1758	0.1758	0.2009	0.2121	49	309	0.263	0.1271	0.1271	0.1453	0.1534
12	12	0.262	0.1077	0.1077	0.1231	0.1299	50	310	0.263	0.1239	0.1239	0.1415	0.1494
13	13	0.264	0.1438	0.1438	0.1643	0.1735	51	311	0.263	0.1164	0.1164	0.1331	0.1405
14	14	0.264	0.1329	0.1329	0.1519	0.1603	52	312	0.262	0.0926	0.0926	0.1058	0.1117
15	15	0.264	0.1124	0.1124	0.1285	0.1356	53	313	0.262	0.0762	0.0762	0.0871	0.0919
16	16	0.264	0.0996	0.0996	0.1138	0.1202	54	314	0.262	0.0533	0.0533	0.0609	0.0643
17	17	0.264	0.0908	0.0908	0.1037	0.1095	55	315	0.262	0.0331	0.0331	0.0378	0.0399
18	18	0.265	0.0839	0.0839	0.0959	0.1012	56	316	0.261	0.0215	0.0215	0.0245	0.0259
19	19	0.265	0.0769	0.0769	0.0879	0.0928	57	317	0.261	0.0111	0.0111	0.0127	0.0134
20	20	0.265	0.0785	0.0785	0.0898	0.0948	58	318	0.261	0.0043	0.0043	0.0049	0.0052
21	21	0.265	0.0818	0.0818	0.0935	0.0987	59	319	0.261	-0.0032	-0.0032	-0.0036	-0.0038
22	22	0.265	0.0829	0.0829	0.0948	0.1001	60	320	0.261	-0.0069	-0.0069	-0.0078	-0.0083
23	23	0.265	0.0836	0.0836	0.0955	0.1009	61	506	0.263	0.1523	0.1523	0.1740	0.1837
24	24	0.265	0.0863	0.0863	0.0987	0.1042	62	507	0.262	0.1749	0.1749	0.1998	0.2109
25	25	0.265	0.0861	0.0861	0.0985	0.1040	63	508	0.262	0.1871	0.1871	0.2137	0.2256
26	103	0.271	0.0667	0.0667	0.0763	0.0806	64	509	0.261	0.1726	0.1726	0.1972	0.2081
27	105	0.268	0.0712	0.0712	0.0815	0.0860	65	510	0.262	0.1809	0.1809	0.2067	0.2181
28	107	0.268	0.0726	0.0726	0.0830	0.0876	66	511	0.262	0.1717	0.1717	0.1962	0.2071
29	108	0.267	0.0712	0.0712	0.0814	0.0860	67	512	0.262	0.1462	0.1462	0.1670	0.1763
30	110	0.266	0.0609	0.0609	0.0696	0.0735	68	513	0.261	0.1201	0.1201	0.1372	0.1449
31	111	0.266	0.0524	0.0524	0.0599	0.0633	69	514	0.261	0.0768	0.0768	0.0877	0.0926
32	112	0.265	0.0396	0.0396	0.0453	0.0478	70	515	0.261	0.0487	0.0487	0.0556	0.0587
33	113	0.265	0.0258	0.0258	0.0295	0.0311	71	516	0.261	0.0324	0.0324	0.0370	0.0390
34	114	0.264	0.0106	0.0106	0.0121	0.0128	72	517	0.261	0.0147	0.0147	0.0167	0.0177
35	115	0.263	0.0031	0.0031	0.0036	0.0038	73	518	0.261	0.0092	0.0092	0.0105	0.0111
36	203	0.265	0.0608	0.0608	0.0695	0.0734	74	519	0.261	0.0030	0.0030	0.0034	0.0036
37	205	0.266	0.0582	0.0582	0.0665	0.0702	75	520	0.260	-0.0068	-0.0068	-0.0077	-0.0082
38	207	0.266	0.0633	0.0633	0.0724	0.0764							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.7005E 06	5.1833E 05	0.305	5.10	1094.2	0.11533E 07	0.3048	1.000	RUN NO.	54
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.1833E 05	5.1833E 05	1.000	75.04	1969.6	495.93	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	301.2	542.2	2.028	1.787	8.355	7.362	1.2800E-03	1.3511E-03	0.477
2	2	338.7	609.7	0.000	0.000	7.962	7.016	2.2488E-14	2.3809E-14	*******
3	3	301.6	542.8	1.791	1.578	8.351	7.358	1.1309E-03	1.1938E-03	0.456
4	4	301.5	542.8	1.767	1.557	8.351	7.359	1.1157E-03	1.1777E-03	0.452
5	5	301.7	543.0	1.727	1.522	8.350	7.358	1.0911E-03	1.1518E-03	0.455
6	6	301.7	543.0	1.711	1.508	8.350	7.358	1.0808E-03	1.1409E-03	0.454
7	7	301.8	543.3	1.699	1.497	8.348	7.356	1.0734E-03	1.1332E-03	0.454
8	8	302.0	543.6	1.678	1.479	8.347	7.355	1.0607E-03	1.1197E-03	0.463
9	9	302.1	543.7	1.653	1.456	8.346	7.354	1.0447E-03	1.1028E-03	0.459
10	10	302.1	543.8	1.588	1.399	8.345	7.353	1.0035E-03	1.0594E-03	0.441
11	11	302.2	544.0	1.467	1.293	8.344	7.352	9.2736E-04	9.7898E-04	0.424
12	12	301.3	542.3	0.900	0.793	8.354	7.361	5.6827E-04	5.9986E-04	0.288
13	13	302.8	545.1	1.199	1.056	8.338	7.347	7.5853E-04	8.0079E-04	0.346
14	14	303.1	545.5	1.108	0.976	8.335	7.344	7.0095E-04	7.4001E-04	0.312
15	15	303.2	545.7	0.937	0.825	8.334	7.344	5.9292E-04	6.2597E-04	0.290
16	16	303.3	546.0	0.830	0.731	8.332	7.342	5.2533E-04	5.5462E-04	0.282
17	17	303.5	546.3	0.756	0.666	8.331	7.340	4.7885E-04	5.0556E-04	0.261
18	18	303.8	546.9	0.698	0.615	8.327	7.338	4.4249E-04	4.6717E-04	0.260
19	19	304.3	547.7	0.640	0.564	8.323	7.334	4.0571E-04	4.2836E-04	0.246
20	20	304.3	547.8	0.653	0.576	8.322	7.333	4.1426E-04	4.3739E-04	0.246
21	21	304.5	548.0	0.680	0.599	8.321	7.332	4.3136E-04	4.5545E-04	0.250
22	22	304.5	548.1	0.690	0.608	8.321	7.331	4.3739E-04	4.6181E-04	0.255
23	23	304.5	548.2	0.695	0.613	8.320	7.331	4.4098E-04	4.6561E-04	0.265
24	24	304.6	548.3	0.718	0.633	8.319	7.330	4.5549E-04	4.8094E-04	0.276
25	25	304.1	547.4	0.717	0.632	8.324	7.335	4.5446E-04	4.7983E-04	0.277
26	103	311.3	560.3	0.550	0.485	8.249	7.269	3.5213E-04	3.7199E-04	0.554
27	105	307.6	553.7	0.590	0.520	8.288	7.303	3.7592E-04	3.9701E-04	0.237
28	107	307.2	552.9	0.602	0.530	8.292	7.306	3.8297E-04	4.0444E-04	0.250
29	108	306.5	551.8	0.591	0.521	8.299	7.312	3.7579E-04	3.9684E-04	C.169
30	110	305.6	550.2	0.506	0.446	8.308	7.321	3.2117E-04	3.3913E-04	0.083
31	111	305.2	549.4	0.436	0.384	8.313	7.325	2.7666E-04	2.9212E-04	0.102
32	112	304.4	547.9	0.330	0.290	8.321	7.332	2.0891E-04	2.2057E-04	0.209
33	113	304.0	547.1	0.215	0.189	8.326	7.336	1.3613E-04	1.4373E-04	C.220
34	114	302.9	545.2	0.088	0.078	8.337	7.346	5.5905E-05	5.9020E-05	C.096
35	115	302.0	543.6	0.026	0.023	8.347	7.354	1.6522E-05	1.7441E-05	-0.359
36	203	304.7	548.5	0.506	0.446	8.318	7.329	3.2083E-04	3.3875E-04	0.166
37	205	305.1	549.2	0.483	0.426	8.314	7.326	3.0681E-04	3.2396E-04	C.160
38	207	305.0	549.0	0.526	0.464	8.315	7.327	3.3395E-04	3.5261E-04	0.213
39	208	304.6	548.3	0.610	0.537	8.319	7.330	3.8665E-04	4.0824E-04	0.212
40	210	303.9	547.0	0.623	0.549	8.326	7.337	3.9473E-04	4.1676E-04	0.155
41	211	303.0	545.4	0.590	0.520	8.336	7.345	3.7362E-04	3.9444E-04	C.206
42	212	302.6	544.7	0.504	0.444	8.340	7.349	3.1854E-04	3.3628E-04	0.327
43	GAP	298.9	538.1	0.000	0.000	8.379	7.383	0.0000E-39	0.0000E-39	-1.322
44	214	338.7	609.6	-0.001	-0.001	7.963	7.016	-4.2217E-07	-4.4696E-07	1.263
45	215	300.7	541.2	0.110	0.097	8.360	7.367	6.9421E-05	7.3277E-05	0.441
46	306	338.7	609.7	-0.000	-0.000	7.962	7.016	-1.0156E-07	-1.0753E-07	-0.271
47	307	303.0	545.4	0.782	0.689	8.336	7.345	4.9477E-04	5.2234E-04	0.327
48	308	302.7	544.9	1.025	0.904	8.339	7.348	6.4869E-04	6.8482E-04	0.334
49	309	302.4	544.3	1.061	0.935	8.343	7.351	6.7063E-04	7.0797E-04	0.281
50	310	302.2	543.9	1.034	0.911	8.345	7.353	6.5329E-04	6.8966E-04	0.298
51	311	301.8	543.2	0.972	0.857	8.349	7.356	6.1421E-04	6.4838E-04	0.333
52	312	301.2	542.1	0.774	0.682	8.355	7.362	4.8845E-04	5.1560E-04	0.422
53	313	301.2	542.2	0.637	0.561	8.355	7.362	4.0192E-04	4.2426E-04	0.422
54	314	301.1	541.9	0.445	0.392	8.356	7.363	2.8100E-04	2.9661E-04	0.481
55	315	300.5	540.9	0.277	0.244	8.362	7.368	1.7473E-04	1.8443E-04	0.444
56	316	300.2	540.4	0.180	0.158	8.365	7.371	1.1326E-04	1.1954E-04	0.446
57	317	299.9	539.9	0.093	0.082	8.368	7.374	5.8787E-05	6.2049E-05	0.455
58	318	299.8	539.6	0.036	0.032	8.370	7.375	2.2706E-05	2.3965E-05	0.387
59	319	299.7	539.4	-0.027	-0.023	8.371	7.376	-1.6707E-05	-1.7633E-05	C.628
60	320	299.6	539.4	-0.057	-0.051	8.371	7.376	-3.6203E-05	-3.8211E-05	C.505
61	506	301.5	542.7	1.272	1.121	8.352	7.359	8.0332E-04	8.4799E-04	0.402
62	507	301.3	542.3	1.461	1.287	8.354	7.361	9.2228E-04	9.7355E-04	0.434
63	508	300.8	541.4	1.564	1.378	8.359	7.366	9.8669E-04	1.0415E-03	0.437
64	509	300.1	540.3	1.444	1.273	8.366	7.372	9.1042E-04	9.6095E-04	C. 374
65	510	300.7	541.2	1.513	1.333	8.361	7.367	9.5412E-04	1.0071E-03	0. 397
66	511	300.5	540.9	1.436	1.265	8.362	7.368	9.0564E-04	9.5593E-04	0. 398
67	512	300.3	540.6	1.223	1.078	8.364	7.370	7.7106E-04	8.1387E-04	0.479
68	513	300.2	540.3	1.005	0.886	8.366	7.371	6.3358E-04	6.6875E-04	0. 519
69	514	299.9	539.8	0.643	0.566	8.369	7.374	4.0496E-04	4.2743E-04	0. 522
70	515	299.4	539.0	0.408	0.359	8.373	7.378	2.5674E-04	2.7097E-04	0.535
71	516	299.5	539.1	0.271	0.239	8.373	7.377	1.7071E-04	1.8018E-04	0.579
72	517	299.4	539.0	0.123	0.108	8.373	7.378	7.7278E-C5	8.1563E-05	0. 316
73	518	299.3	538.8	0.077	0.068	8.374	7.379	4.8483E-C5	5.1171E-C5	0. 713
74	519	299.1	538.4	0.025	0.022	8.377	7.381	1.5789E-05	1.6664E-05	C.429
75	520	298.9	537.9	-0.057	-0.050	8.380	7.383	-3.5687E-05	-3.7664E-05	C.615

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3548E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.659	3.885	3.441
PT2/PT1	4.876E-02	5.177E-02	4.585E-02
TEMP(DEG R)	1924.6	1979.8	2013.6
TT2/TT1	0.9772	1.0047	1.0223

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 55 FRAME 26 TC 51 CONSTANT SET1541

REF1	REF2	REF3	A	B	C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.9685E 06	149.31	2044.34	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.490	2043.824	0.161	0.191	704.149	-0.286	17.6034
0.070	149.307	2043.568	0.159	0.191	704.149	-0.286	17.6074
0.140	149.124	2043.695	0.159	0.246	705.101	-0.299	17.6115
0.210	149.307	2044.214	0.159	0.569	709.852	-0.286	17.6155
0.280	149.307	2043.954	0.185	1.644	747.258	-0.273	17.6074
0.350	149.490	2043.306	0.511	3.273	1113.691	-0.286	17.6034
0.420	149.307	2042.917	1.916	4.594	1586.029	-0.286	17.6034
0.490	149.307	2043.955	4.161	6.025	1860.330	-0.299	17.6155
0.560	149.307	2044.603	5.865	7.165	1954.430	-0.299	17.6155
0.630	149.307	2044.084	6.869	7.721	2001.134	-0.299	17.6115
0.700	149.490	2043.826	7.561	7.804	1997.204	-0.299	17.6115
0.770	149.307	2043.177	7.919	7.635	1999.824	-0.312	34.9042
0.840	149.307	2042.919	8.011	7.368	1997.204	-0.312	34.9284
0.910	149.307	2044.344	7.958	7.215	1999.824	-0.312	34.9284
0.980	149.307	2044.473	7.903	7.268	2014.861	-0.299	34.9284
1.050	149.307	2043.568	7.871	7.368	2024.643	-0.286	34.9243
1.120	149.307	2042.919	7.852	7.462	2021.385	-0.299	34.9243
1.190	149.307	2043.051	7.852	7.546	2030.502	-0.312	34.9324
1.260	149.307	2044.346	7.863	7.607	2027.899	-0.299	34.9284
1.330	149.124	2043.698	7.860	7.637	2027.899	-0.299	34.9284
1.400	149.307	2043.306	7.852	7.637	2034.405	-0.286	34.9284
1.470	149.124	2042.788	7.863	7.651	2046.742	-0.299	34.9203
1.540	149.307	2043.048	7.879	7.665	2066.157	-0.312	34.9324
1.610	149.307	2043.434	7.889	7.690	2056.459	-0.299	34.9324
1.680	149.490	2043.955	7.889	7.721	2063.573	-0.286	34.9284
1.750	149.490	2042.529	7.889	7.762	2051.279	-0.286	34.9284

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1776E 06	9.6852E 05 0.305	10.16	1135.7	0.12013E 07	0.3048	1.000	RUN NO. 55
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.6852E 05	9.6852E 05 1.000	149.31	2044.3	516.61	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.255	0.2700	0.2700	0.3080	0.3249	39	208	0.258	0.0654	0.0654	0.0746	0.0787
2	2	0.283	-0.0000	-0.0000	-0.0000	-0.0000	40	210	0.257	0.0670	0.0670	0.0765	0.0807
3	3	0.255	0.2721	0.2721	0.3104	0.3274	41	211	0.255	0.0693	0.0693	0.0791	0.0835
4	4	0.255	0.2824	0.2824	0.3222	0.3399	42	212	0.255	0.0640	0.0640	0.0731	0.0771
5	5	0.255	0.2835	0.2835	0.3235	0.3413	43	GAP	0.251	0.0000	0.0000	0.0000	0.0000
6	6	0.255	0.2887	0.2887	0.3294	0.3475	44	214	0.283	0.0000	0.0000	0.0000	0.0000
7	7	0.255	0.2948	0.2948	0.3363	0.3548	45	215	0.253	0.0220	0.0220	0.0251	0.0264
8	8	0.255	0.2855	0.2855	0.3257	0.3436	46	306	0.283	-0.0001	-0.0001	-0.0001	-0.0001
9	9	0.255	0.2715	0.2715	0.3098	0.3268	47	307	0.256	0.1061	0.1061	0.1211	0.1277
10	10	0.255	0.2499	0.2499	0.2851	0.3008	48	308	0.256	0.1425	0.1425	0.1625	0.1715
11	11	0.256	0.2209	0.2209	0.2521	0.2659	49	309	0.255	0.1541	0.1541	0.1758	0.1855
12	12	0.254	0.1483	0.1483	0.1692	0.1785	50	310	0.255	0.1540	0.1540	0.1757	0.1854
13	13	0.256	0.1740	0.1740	0.1986	0.2095	51	311	0.254	0.1485	0.1485	0.1694	0.1787
14	14	0.256	0.1555	0.1555	0.1775	0.1872	52	312	0.254	0.1298	0.1298	0.1480	0.1561
15	15	0.256	0.1203	0.1203	0.1373	0.1448	53	313	0.254	0.1313	0.1313	0.1497	0.1579
16	16	0.256	0.1008	0.1008	0.1150	0.1214	54	314	0.253	0.1023	0.1023	0.1167	0.1230
17	17	0.257	0.0877	0.0877	0.1001	0.1056	55	315	0.252	0.0781	0.0781	0.0890	0.0939
18	18	0.257	0.0798	0.0798	0.0910	0.0960	56	316	0.252	0.0526	0.0596	0.0680	0.0717
19	19	0.257	0.0764	0.0764	0.0872	0.0920	57	317	0.251	0.0403	0.0403	0.0459	0.0485
20	20	0.258	0.0771	0.0771	0.0880	0.0929	58	318	0.251	0.0249	0.0249	0.0283	0.0299
21	21	0.258	0.0741	0.0741	0.0846	0.0893	59	319	0.251	0.0075	0.0075	0.0085	0.0090
22	22	0.258	0.0739	0.0739	0.0844	0.0890	60	320	0.251	-0.0060	-0.0060	-0.0069	-0.0072
23	23	0.258	0.0718	0.0718	0.0819	0.0864	61	506	0.255	0.2411	0.2411	0.2750	0.2901
24	24	0.258	0.0724	0.0724	0.0826	0.0872	62	507	0.254	0.2329	0.2329	0.2657	0.2803
25	25	0.257	0.0709	0.0709	0.0809	0.0854	63	508	0.254	0.2110	0.2110	0.2407	0.2539
26	103	0.264	0.0590	0.0590	0.0674	0.0711	64	509	0.253	0.1764	0.1764	0.2012	0.2122
27	105	0.261	0.0598	0.0598	0.0683	0.0721	65	510	0.253	0.1868	0.1868	0.2130	0.2247
28	107	0.261	0.0651	0.0651	0.0743	0.0784	66	511	0.253	0.1777	0.1777	0.2027	0.2138
29	108	0.260	0.0720	0.0720	0.0822	0.0868	67	512	0.253	0.1534	0.1534	0.1750	0.1845
30	110	0.259	0.0714	0.0714	0.0816	0.0861	68	513	0.252	0.1287	0.1287	0.1468	0.1548
31	111	0.259	0.0663	0.0663	0.0757	0.0799	69	514	0.252	0.0864	0.0864	0.0985	0.1039
32	112	0.258	0.0567	0.0567	0.0647	0.0683	70	515	0.251	0.0593	0.0593	0.0676	0.0713
33	113	0.257	0.0402	0.0402	0.0459	0.0484	71	516	0.251	0.0431	0.0431	0.0491	0.0518
34	114	0.256	0.0226	0.0226	0.0258	0.0272	72	517	0.251	0.0317	0.0317	0.0362	0.0381
35	115	0.255	0.0100	0.0100	0.0115	0.0121	73	518	0.251	0.0188	0.0188	0.0214	0.0226
36	203	0.258	0.0458	0.0458	0.0523	0.0552	74	519	0.251	0.0122	0.0122	0.0139	0.0147
37	205	0.258	0.0469	0.0469	0.0535	0.0565	75	520	0.250	0.0015	0.0015	0.0017	0.0018
38	207	0.258	0.0582	0.0582	0.0665	0.0702							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1776E 06	9.6852E 05	0.305	10.16	1135.7	0.12013E 07	0.3048	1.000	RUN NO. 55
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.6852E 05	9.6852E 05	1.000	149.31	2044.3	516.61	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	QW(W/CM2)	QW(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	304.5	548.1	3.347	2.950	12.399	10.925	1.0360E-03	1.0928E-03	0.380
2	2	338.7	609.7	-0.000	-0.000	11.893	10.479	-2.9398E-16	-3.1089E-16	*******
3	3	305.0	549.1	3.371	2.970	12.391	10.918	1.0440E-03	1.1013E-03	0.381
4	4	305.0	549.0	3.499	3.083	12.391	10.918	1.0836E-03	1.1431E-03	0.385
5	5	305.1	549.3	3.513	3.095	12.389	10.917	1.0881E-03	1.1479E-03	0.378
6	6	305.0	549.1	3.578	3.152	12.391	10.918	1.1080E-03	1.1688E-03	0.383
7	7	305.2	549.4	3.652	3.218	12.388	10.916	1.1312E-03	1.1933E-03	0.394
8	8	305.4	549.7	3.536	3.116	12.386	10.913	1.0956E-03	1.1558E-03	0.404
9	9	305.5	549.8	3.363	2.963	12.385	10.913	1.0420E-03	1.0993E-03	0.408
10	10	305.5	549.9	3.094	2.726	12.384	10.912	9.5883E-04	1.0115E-03	0.411
11	11	305.6	550.1	2.736	2.410	12.382	10.910	8.4783E-04	8.9444E-04	0.409
12	12	304.3	547.8	1.839	1.621	12.402	10.928	5.6913E-04	6.0037E-04	0.421
13	13	306.4	551.4	2.153	1.897	12.371	10.901	6.6766E-04	7.0461E-04	0.387
14	14	306.5	551.8	1.923	1.695	12.369	10.899	5.9679E-04	6.2964E-04	0.364
15	15	306.6	551.8	1.488	1.311	12.368	10.898	4.6167E-04	4.8708E-04	0.326
16	16	306.8	552.2	1.246	1.098	12.365	10.896	3.8681E-04	4.0811E-04	0.289
17	17	307.1	552.7	1.084	0.955	12.361	10.892	3.3651E-04	3.5505E-04	0.231
18	18	307.5	553.5	0.985	0.868	12.355	10.886	3.0610E-04	3.2297E-04	0.185
19	19	307.9	554.2	0.944	0.832	12.349	10.881	2.9334E-04	3.0951E-04	0.180
20	20	308.0	554.5	0.952	0.839	12.347	10.879	2.9603E-04	3.1236E-04	0.190
21	21	308.4	555.1	0.914	0.806	12.341	10.875	2.8442E-04	3.0012E-04	0.156
22	22	308.2	554.8	0.913	0.804	12.343	10.876	2.8378E-04	2.9944E-04	0.165
23	23	308.2	554.8	0.886	0.781	12.344	10.877	2.7547E-04	2.9066E-04	0.160
24	24	308.3	555.0	0.893	0.787	12.342	10.875	2.7785E-04	2.9318E-04	0.163
25	25	307.3	553.2	0.876	0.772	12.357	10.888	2.7204E-04	2.8703E-04	0.152
26	103	315.8	568.5	0.721	0.635	12.231	10.777	2.2642E-04	2.3904E-04	0.472
27	105	312.7	562.9	0.734	0.647	12.277	10.817	2.2953E-04	2.4227E-04	0.117
28	107	312.4	562.3	0.799	0.704	12.282	10.822	2.4580E-04	2.6366E-04	0.166
29	108	311.4	560.6	0.885	0.780	12.296	10.835	2.7640E-04	2.9172E-04	0.107
30	110	310.2	558.4	0.880	0.775	12.314	10.850	2.7428E-04	2.8946E-04	-0.009
31	111	309.6	557.3	0.818	0.720	12.323	10.858	2.5467E-04	2.6874E-04	-0.004
32	112	308.4	555.2	0.700	0.617	12.341	10.874	2.1772E-04	2.2974E-04	0.072
33	113	307.8	554.0	0.497	0.438	12.350	10.882	1.5438E-04	1.6289E-04	0.049
34	114	306.2	551.2	0.279	0.246	12.373	10.902	8.6691E-05	9.1461E-05	-0.032
35	115	304.8	548.6	0.124	0.110	12.395	10.921	3.8537E-05	4.0653E-05	-0.345
36	203	308.1	554.6	0.565	0.498	12.345	10.878	1.7579E-04	1.8549E-04	-0.054
37	205	308.8	555.9	0.578	0.510	12.335	10.869	1.7998E-04	1.8992E-04	-0.033
38	207	308.7	555.6	0.718	0.633	12.337	10.870	2.2355E-04	2.3589E-04	0.030
39	208	308.1	554.6	0.807	0.711	12.346	10.878	2.5086E-04	2.6469E-04	-0.000
40	210	307.1	552.8	0.828	0.730	12.361	10.891	2.5713E-04	2.7129E-04	-0.131
41	211	305.6	550.1	0.859	0.757	12.383	10.911	2.6608E-04	2.8071E-04	-0.037
42	212	305.1	549.3	0.793	0.699	12.389	10.917	2.4570E-04	2.5920E-04	0.086
43	GAP	299.8	539.7	0.000	0.000	12.469	10.987	0.0000E-39	0.0000E-39	-5.045
44	214	338.7	609.6	0.000	0.000	11.893	10.480	2.3137E-14	2.4468E-14	*******
45	215	302.1	543.7	0.273	0.241	12.435	10.957	8.4284E-05	8.8895E-05	0.092
46	306	338.7	609.7	-0.001	-0.001	11.892	10.479	-2.2224E-07	-2.3503E-07	1.139
47	307	306.4	551.5	1.313	1.157	12.371	10.901	4.0721E-04	4.2962E-04	0.185
48	308	305.8	550.4	1.763	1.554	12.380	10.908	5.4667E-04	5.7673E-04	0.261
49	309	305.3	549.5	1.909	1.682	12.388	10.915	5.9139E-04	6.2389E-04	0.230
50	310	305.0	548.9	1.909	1.682	12.392	10.919	5.9101E-04	6.2347E-04	0.238
51	311	304.3	547.8	1.842	1.623	12.402	10.928	5.6982E-04	6.0109E-04	0.249
52	312	303.3	545.9	1.612	1.420	12.417	10.941	4.9796E-04	5.2525E-04	0.324
53	313	303.4	546.1	1.630	1.436	12.415	10.939	5.0368E-04	5.3128E-04	0.416
54	314	302.8	545.0	1.271	1.120	12.425	10.948	3.9245E-04	4.1394E-04	0.412
55	315	302.0	543.6	0.971	0.856	12.436	10.958	2.9954E-04	3.1592E-04	0.427
56	316	301.3	542.4	0.742	0.654	12.446	10.966	2.2865E-04	2.4115E-04	0.422
57	317	300.8	541.4	0.502	0.442	12.455	10.974	1.5458E-04	1.6303E-04	0.431
58	318	300.6	541.0	0.310	0.273	12.457	10.977	9.5375E-05	1.0058E-04	0.431
59	319	300.3	540.6	0.093	0.082	12.461	10.980	2.8631E-05	3.0194E-05	0.554
60	320	300.2	540.4	-0.075	-0.066	12.462	10.981	-2.3061E-05	-2.4319E-05	0.193
61	506	304.5	548.0	2.990	2.634	12.400	10.926	9.2515E-04	9.7593E-04	0.346
62	507	304.2	547.5	2.889	2.546	12.404	10.929	8.9370E-04	9.4273E-04	0.328
63	508	303.6	546.5	2.619	2.308	12.412	10.937	8.0978E-04	8.5417E-04	0.310
64	509	302.8	545.1	2.191	1.931	12.424	10.947	6.7673E-04	7.1379E-04	0.226
65	510	303.0	545.4	2.320	2.044	12.421	10.944	7.1667E-04	7.5593E-04	0.245
66	511	302.7	544.9	2.208	1.946	12.425	10.948	6.8180E-04	7.1914E-04	0.240
67	512	302.4	544.4	1.907	1.680	12.430	10.952	5.8862E-04	6.2084E-04	0.298
68	513	301.9	543.4	1.601	1.411	12.438	10.960	4.9377E-04	5.2078E-04	0.330
69	514	301.3	542.3	1.075	0.947	12.447	10.968	3.3137E-04	3.4948E-04	0.314
70	515	300.5	541.0	0.738	0.651	12.458	10.977	2.2735E-04	2.3976E-04	0.302
71	516	300.5	541.0	0.536	0.473	12.458	10.977	1.6518E-04	1.7420E-04	0.310
72	517	300.4	540.7	0.395	0.348	12.460	10.979	1.2169E-04	1.2833E-04	0.347
73	518	300.0	540.1	0.234	0.206	12.465	10.984	7.2064E-05	7.5996E-05	0.364
74	519	299.8	539.6	0.153	0.134	12.469	10.987	4.6927E-05	4.9487E-05	0.309
75	520	299.5	539.1	0.018	0.016	12.474	10.991	5.6712E-06	5.9804E-06	2.625

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6215E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.948	7.389	7.762
PT2/PT1	5.323E-02	5.284E-02	5.199E-02
TEMP(DEG R)	2086.1	2051.3	2109.2
TT2/TT1	1.0204	1.0034	1.0317

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 56 FRAME 26 TO 52 CONSTANT SET1542

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	C.0	0 0 8 1	5.10	0.1987E 07	304.64	2037.62	1.C000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.639	2037.879	0.292	0.354	779.173	-0.292	7.8225
0.070	304.456	2037.620	0.287	0.357	780.075	-C.318	17.6056
0.140	304.639	2037.620	0.287	0.415	779.173	-0.318	17.6097
0.210	304.456	2038.658	0.290	0.807	785.472	-0.318	17.6137
0.280	304.822	2037.749	0.3C3	2.598	815.690	-0.305	17.6016
0.350	304.639	2036.972	0.7C8	5.909	1129.025	-C.305	17.6056
0.420	304.639	2037.362	3.263	8.762	1696.778	-C.331	17.6056
0.490	304.639	2037.361	7.982	11.792	1965.654	-0.318	17.6097
0.560	304.639	2038.C09	11.875	14.305	2033.755	-0.318	17.6097
C.630	304.822	2037.621	14.118	15.537	2049.335	-C.318	17.6056
C.700	304.639	2036.193	15.469	15.782	2031.153	-0.331	17.6056
0.770	304.456	2036.324	16.059	15.423	2048.687	-0.331	34.8563
0.840	304.639	2036.584	16.229	14.962	2076.481	-0.318	34.9208
C.910	304.639	2037.620	16.096	14.761	2064.219	-C.331	34.9168
0.980	304.639	2037.102	15.972	14.895	2068.740	-0.305	34.9128
1.050	304.639	2036.323	15.892	15.117	2079.703	-0.318	34.9208
1.120	304.456	2036.324	15.874	15.359	2085.496	-C.331	34.9168
1.190	304.456	2036.323	15.9C0	15.518	2086.140	-C.344	34.9249
1.260	304.639	2036.841	15.914	15.657	2109.244	-0.331	34.9208
1.330	304.822	2036.193	15.927	15.759	2098.989	-C.318	34.9168
1.400	304.639	2036.063	15.937	15.796	2089.998	-C.318	34.9208
1.470	304.4[illegible]	2036.193	15.927	15.848	2091.926	-C.331	34.9168
1.540	304.639	2036.193	15.922	15.907	2092.568	-C.331	34.9249
1.610	304.639	2036.712	15.916	15.962	2101.555	-0.331	34.9208
1.680	304.822	2036.193	15.919	15.990	2097.705	-0.305	34.9168
1.750	304.639	2035.933	15.911	16.035	2095.138	-C.305	34.9208
1.820	304.456	2035.411	15.924	16.038	2118.201	-C.344	34.9168

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.5196E C6	1.9872E C6	0.305	20.72	1132.0	0.11970E 07	0.3048	1.000	RUN NO.	56
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9872E C6	1.9872E 06	1.000	304.64	2037.6	514.74	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.262	0.2677	0.2677	0.3058	0.3227	39	208	0.265	0.1199	0.1199	0.1370	0.1447
2	2	0.244	C.CC01	0.0001	0.0001	C.0001	4C	210	0.264	0.1426	0.1426	0.1630	0.1721
3	3	0.262	C.2758	0.2758	0.3151	0.3326	41	211	C.260	0.1429	0.1429	0.1632	0.1723
4	4	0.262	0.2937	0.2937	0.3355	0.3542	42	212	0.260	0.1422	0.1422	0.1623	0.1713
5	5	0.263	0.3025	0.3025	0.3457	C.3649	43	GAP	0.253	0.C000	0.C000	0.0000	0.0000
6	6	0.262	C.3166	0.3166	0.3618	C.3819	44	214	0.284	-0.0001	-0.0001	-0.0001	-0.CC01
7	7	0.262	0.3393	0.3393	0.3876	0.4092	45	215	C.256	0.0777	0.0777	0.0887	0.0936
8	8	0.263	0.3518	0.3518	0.4020	0.4243	46	306	0.284	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.263	0.3612	0.3612	0.4127	0.4356	47	307	0.263	0.2730	0.2730	0.3119	0.3293
10	10	0.262	0.3630	0.3630	0.4148	C.4378	48	308	0.263	0.2698	0.2698	0.3082	0.3254
11	11	0.263	0.3492	0.3492	0.3990	0.4212	49	309	0.262	0.2574	0.2574	0.2941	0.3104
12	12	0.261	0.2498	0.2498	0.2853	0.3011	50	310	0.261	0.2496	0.2496	0.2851	0.3009
13	13	C.263	0.3214	0.3214	0.3673	0.3877	51	311	0.261	0.2390	0.2390	0.2729	0.2881
14	14	0.264	C.3112	0.3112	0.3556	0.3754	52	312	0.259	0.1977	0.1977	0.2257	0.2382
15	15	0.264	0.2538	0.2538	0.2900	0.3062	53	313	0.258	0.1659	0.1659	0.1894	0.1998
16	16	C.264	0.2018	0.2018	0.2306	0.2434	54	314	0.257	0.1204	0.1204	0.1374	0.1449
17	17	C.264	0.1571	0.1571	0.1795	0.1895	55	315	0.256	C.0870	0.0870	0.0992	0.1047
18	18	0.265	0.1232	0.1232	0.1409	C.1487	56	316	0.255	0.0653	0.0653	0.0745	0.0786
19	19	0.265	0.0967	0.0967	0.1106	0.1168	57	317	0.254	0.0473	0.0473	0.0539	0.0569
20	20	0.266	0.0866	0.0866	0.0990	0.1045	58	318	0.254	0.0341	0.0341	0.0389	0.0410
21	21	0.266	0.0840	0.0840	0.0960	C.1014	59	319	0.254	0.0234	0.0234	0.0267	0.0281
22	22	0.266	0.0788	0.0788	0.0901	0.0951	60	320	0.254	0.0133	0.0133	0.0151	0.0160
23	23	0.266	0.0745	0.0745	0.0851	0.0899	61	506	0.261	0.2740	0.2740	0.3130	0.3303
24	24	0.266	0.0708	0.0708	0.0809	0.0855	62	507	0.261	0.2585	0.2585	0.2952	0.3116
25	25	0.265	C.0661	0.0661	0.0756	C.0798	63	508	0.260	0.2291	0.2291	0.2616	0.2761
26	103	0.270	C.0590	0.0590	0.0675	0.0713	64	509	0.260	0.1935	0.1935	0.2210	0.2332
27	105	0.272	0.0567	0.0567	0.0648	0.0685	65	510	0.259	0.1778	0.1778	0.2030	0.2142
28	107	C.271	0.0639	0.0639	0.0731	0.0772	66	511	0.259	0.1689	0.1689	0.1928	0.2035
29	108	0.270	0.0758	0.0758	0.0867	C.0916	67	512	0.259	0.1437	0.1437	0.1641	0.1732
30	110	0.268	0.0806	0.0806	0.0922	0.0974	68	513	0.258	0.1239	0.1239	0.1414	0.1492
31	111	0.268	0.0779	0.0779	0.0891	0.0940	69	514	0.257	0.0913	0.0913	0.1042	0.1099
32	112	C.266	0.0740	0.0740	0.0846	0.0893	70	515	0.256	0.0711	0.0711	0.0811	0.0856
33	113	0.265	C.0630	0.0630	0.0720	C.0760	71	516	0.255	0.0598	0.0598	0.0682	0.0720
34	114	0.263	0.0398	0.0398	0.0455	0.0480	72	517	C.255	0.0484	0.0484	0.0553	0.0583
35	115	0.260	0.0219	0.0219	0.0251	0.0265	73	518	0.254	0.0384	0.0384	0.0438	0.0462
36	203	0.265	0.0533	0.0533	0.0609	0.0643	74	519	0.254	0.0339	0.0339	0.0387	0.0408
37	205	0.266	C.0600	0.0600	0.0686	C.0724	75	520	0.253	0.0263	0.0263	0.0299	0.0316
38	207	C.266	0.0918	0.0918	0.1049	0.1108							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5196E C6	1.9872E C6	0.305	20.72	1132.0	0.11970E 07	0.3048	1.000	RUN NO. 56
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9872E C6	1.9872E 06	1.000	304.64	2037.6	514.74	1.0000	1.000	

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	C(W/CM2)	C(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	311.7	561.1	4.677	4.121	17.472	15.395	7.1786E-04	7.5771E-04	0.361
2	2	291.3	524.4	0.002	0.002	17.905	15.777	2.6155E-07	2.7567E-07	1.410
3	3	312.7	562.8	4.813	4.241	17.452	15.378	7.3971E-04	7.8083E-04	0.365
4	4	312.7	562.8	5.125	4.516	17.452	15.378	7.8769E-04	8.3147E-04	0.368
5	5	312.9	563.2	5.279	4.651	17.447	15.373	8.1146E-04	8.5659E-04	0.369
6	6	312.7	562.8	5.526	4.869	17.452	15.378	8.4924E-04	8.9645E-04	0.379
7	7	312.8	563.1	5.920	5.216	17.449	15.375	9.0997E-04	9.6056E-04	0.394
8	8	313.C	563.4	6.137	5.408	17.446	15.372	9.4359E-04	9.9606E-04	0.413
9	9	312.9	563.3	6.302	5.553	17.447	15.373	9.6875E-04	1.0226E-03	0.422
10	1C	312.8	563.1	6.334	5.581	17.449	15.375	9.7369E-04	1.0278E-03	0.425
11	11	312.9	563.2	6.093	5.369	17.448	15.374	9.3667E-04	9.8876E-04	0.417
12	12	310.7	559.3	4.369	3.850	17.494	15.414	6.6975E-04	7.0688E-04	0.415
13	13	313.7	564.6	5.603	4.937	17.431	15.359	8.6220E-04	9.1020E-04	0.380
14	14	314.1	565.4	5.421	4.777	17.422	15.351	8.3473E-04	8.8122E-04	0.356
15	15	314.1	565.4	4.422	3.896	17.422	15.351	6.8084E-04	7.1876E-04	0.340
16	16	314.4	565.9	3.514	3.097	17.416	15.346	5.4128E-04	5.7144E-04	0.314
17	17	314.8	566.7	2.734	2.409	17.407	15.338	4.2140E-04	4.4489E-04	0.276
18	18	315.5	567.9	2.143	1.889	17.393	15.326	3.3060E-04	3.4905E-04	0.241
19	19	316.C	568.8	1.682	1.482	17.382	15.316	2.5954E-04	2.7404E-04	0.204
20	20	316.5	569.8	1.504	1.325	17.370	15.306	2.3233E-04	2.4531E-04	0.187
21	21	317.0	570.5	1.458	1.285	17.362	15.298	2.2531E-04	2.3790E-04	0.183
22	22	316.7	570.1	1.369	1.206	17.366	15.302	2.1147E-04	2.2329E-04	0.167
23	23	316.8	570.2	1.293	1.139	17.366	15.301	1.9977E-04	2.1093E-04	0.153
24	24	316.9	570.4	1.229	1.083	17.363	15.299	1.8995E-04	2.0057E-04	0.114
25	25	315.4	567.8	1.150	1.013	17.394	15.327	1.7734E-04	1.8724E-04	0.067
26	103	321.4	578.6	1.019	0.898	17.267	15.214	1.5844E-04	1.6735E-04	0.064
27	105	323.7	582.7	0.975	0.860	17.219	15.172	1.5209E-04	1.6068E-04	0.051
28	107	323.3	581.9	1.101	0.970	17.228	15.180	1.7152E-04	1.8120E-04	0.109
29	108	321.8	579.3	1.308	1.153	17.259	15.207	2.0346E-04	2.1492E-04	0.063
30	110	319.9	575.9	1.395	1.229	17.299	15.243	2.1639E-04	2.2853E-04	-0.057
31	111	318.9	574.0	1.349	1.188	17.321	15.262	2.0896E-04	2.2067E-04	-0.055
32	112	317.0	570.6	1.284	1.131	17.361	15.298	1.9845E-04	2.0955E-04	0.034
33	113	315.5	567.9	1.096	0.965	17.392	15.325	1.6901E-04	1.7844E-04	0.093
34	114	312.9	563.3	0.695	0.612	17.447	15.373	1.0679E-04	1.1273E-04	0.009
35	115	310.4	558.7	0.384	0.338	17.501	15.421	5.8860E-05	6.2121E-05	-0.179
36	203	315.8	568.5	0.927	0.816	17.385	15.319	1.4298E-04	1.5097E-04	-0.053
37	205	317.C	570.7	1.041	0.918	17.360	15.297	1.6095E-04	1.6995E-04	-0.012
38	207	317.0	570.7	1.594	1.404	17.360	15.297	2.4629E-04	2.6006E-04	0.129
39	208	316.1	569.0	2.083	1.836	17.380	15.314	3.2157E-04	3.3953E-04	0.150
40	210	314.6	566.2	2.484	2.188	17.412	15.343	3.8263E-04	4.0395E-04	0.092
41	211	310.3	558.5	2.502	2.204	17.503	15.422	3.8326E-04	4.0449E-04	0.084
42	212	310.2	558.4	2.488	2.193	17.504	15.424	3.8119E-04	4.0231E-04	0.153
43	GAP	301.7	543.1	0.000	0.000	17.684	15.582	0.0000E-39	0.0000E-39	-3.708
44	214	338.6	609.5	-0.001	-0.001	16.905	14.896	-2.2094E-07	-2.3368E-07	0.461
45	215	305.6	550.0	1.368	1.205	17.603	15.511	2.0830E-04	2.1977E-04	0.183
46	306	338.7	609.7	-0.000	-0.000	16.902	14.893	-4.5052E-14	-4.7649E-14	*******
47	307	313.9	565.0	4.757	4.192	17.426	15.355	7.3225E-04	7.7302E-04	0.326
48	308	313.C	563.4	4.707	4.147	17.446	15.372	7.2359E-04	7.6383E-04	0.308
49	309	312.1	561.8	4.496	3.962	17.464	15.388	6.9046E-04	7.2881E-04	0.294
50	310	311.7	561.0	4.361	3.843	17.474	15.397	6.6936E-04	7.0652E-04	0.315
51	311	310.6	559.2	4.181	3.684	17.495	15.416	6.4084E-04	6.7636E-04	0.334
52	312	308.9	556.0	3.465	3.054	17.532	15.448	5.2997E-04	5.5928E-04	0.419
53	313	307.2	552.9	2.915	2.568	17.569	15.480	4.4474E-04	4.6928E-04	0.460
54	314	306.6	551.8	2.116	1.865	17.582	15.492	3.2264E-04	3.4043E-04	0.461
55	315	305.3	549.6	1.531	1.349	17.608	15.515	2.3310E-04	2.4593E-04	0.464
56	316	304.3	547.8	1.151	1.014	17.630	15.534	1.7494E-04	1.8456E-04	0.460
57	317	303.2	545.7	0.834	0.735	17.653	15.555	1.2664E-04	1.3359E-04	0.462
58	318	303.C	545.4	0.602	0.530	17.658	15.559	9.1346E-05	9.6357E-05	0.448
59	319	302.6	544.6	0.413	0.364	17.667	15.567	6.2615E-05	6.6048E-05	0.447
60	320	302.3	544.1	0.234	0.206	17.673	15.572	3.5527E-05	3.7474E-05	0.428
61	506	311.6	560.9	4.788	4.218	17.475	15.398	7.3475E-04	7.7553E-04	0.320
62	507	311.2	560.1	4.519	3.982	17.484	15.406	6.9312E-04	7.3157E-04	0.290
63	508	310.4	558.8	4.008	3.532	17.500	15.420	6.1422E-04	6.4825E-04	0.260
64	509	309.3	556.8	3.391	2.988	17.523	15.440	5.1885E-04	5.4756E-04	0.243
65	510	308.8	555.8	3.117	2.747	17.534	15.450	4.7668E-04	5.0303E-04	0.258
66	511	308.8	555.8	2.961	2.609	17.535	15.450	4.5280E-04	4.7784E-04	0.265
67	512	308.5	555.3	2.521	2.221	17.541	15.456	3.8532E-04	4.0662E-04	0.303
68	513	307.7	553.8	2.175	1.916	17.558	15.471	3.3207E-04	3.5041E-04	0.329
69	514	306.C	550.9	1.606	1.415	17.593	15.502	2.4471E-04	2.5820E-04	0.307
70	515	304.5	548.1	1.253	1.104	17.625	15.530	1.9051E-04	2.0099E-04	0.295
71	516	304.4	547.9	1.054	0.929	17.628	15.532	1.6026E-04	1.6906E-04	0.327
72	517	303.8	546.9	0.855	0.753	17.640	15.543	1.2983E-04	1.3696E-04	0.304
73	518	303.2	545.7	0.678	0.598	17.654	15.556	1.0296E-04	1.0861E-04	0.295
74	519	302.6	544.7	0.600	0.528	17.666	15.566	9.0973E-05	9.5961E-05	0.370
75	520	301.9	543.4	0.464	0.409	17.681	15.580	7.0344E-05	7.4198E-05	0.434

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3621E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.718	15.924	16.038
PT2/PT1	5.488E-02	5.227E-02	5.264E-02
TEMP(DEG R)	2086.1	2118.2	2142.4
TT2/TT1	1.0238	1.0395	1.0514

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 57 FRAME 26 TO 52 CONSTANT SET1541

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9683E 06	148.26	2036.19	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	148.263	2034.894	0.144	0.196	656.505	-0.293	17.6052
0.070	147.714	2035.284	0.144	0.204	699.377	-0.293	17.6052
0.140	148.263	2035.413	0.141	0.285	701.288	-0.293	17.6132
0.210	147.714	2036.063	0.144	0.838	708.903	-0.306	17.6132
0.280	148.263	2035.413	0.218	2.203	827.089	-0.293	17.6011
0.350	147.714	2034.895	0.944	3.757	1326.586	-0.280	17.6052
0.420	148.263	2035.154	2.863	5.091	1745.193	-0.306	17.6052
0.490	148.263	2035.414	4.976	6.484	1912.608	-0.306	17.6173
0.560	148.446	2036.063	6.218	7.451	1953.769	-0.319	17.6092
0.630	148.263	2035.413	7.033	7.821	1955.091	-0.293	17.6052
0.700	148.263	2035.284	7.613	7.734	1975.536	-0.293	17.6052
0.770	148.263	2035.026	7.925	7.290	1993.928	-0.306	34.9238
0.840	148.263	2035.674	8.005	6.928	2020.733	-0.293	34.9238
0.910	148.263	2036.194	7.978	6.803	2021.385	-0.293	34.9319
0.980	148.629	2035.284	7.941	6.848	2021.385	-0.293	34.9238
1.050	148.446	2035.285	7.907	6.953	2034.405	-0.293	34.9279
1.120	148.446	2035.415	7.859	7.081	2051.927	-0.319	34.9279
1.190	148.446	2035.544	7.923	7.134	2053.222	-0.293	34.9319
1.260	148.446	2036.454	7.925	7.181	2064.865	-0.306	34.9319
1.330	148.446	2035.933	7.939	7.237	2073.257	-0.293	34.9238
1.400	148.263	2035.284	7.925	7.279	2057.106	-0.293	34.9279
1.470	148.446	2035.414	7.912	7.318	2046.093	-0.319	34.9279
1.540	148.446	2036.063	7.907	7.356	2051.927	-0.293	34.9319
1.610	148.446	2036.843	7.912	7.395	2066.157	-0.306	34.9319
1.680	148.629	2035.803	7.912	7.440	2069.386	-0.293	34.9238
1.750	148.446	2035.284	7.912	7.443	2063.573	-0.306	34.9279
1.820	148.446	2035.804	7.909	7.457	2065.511	-0.319	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JCULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1767E 06	9.6827E 05 0.305	10.09	1131.2	0.11961E 07	0.3048	1.000	RUN NO. 57
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	HAW/HT	
5.10	9.6827E 05	9.6827E 05 1.000	148.26	2036.2	514.35	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.260	0.1822	0.1822	0.2080	0.2196	39	208	0.264	0.0536	0.0536	0.0613	0.0647
2	2	0.247	-0.0000	-0.0000	-0.0000	-0.0000	40	210	0.263	0.0460	0.0460	0.0526	0.0555
3	3	0.260	0.1369	0.1369	0.1564	0.1650	41	211	0.262	0.0390	0.0390	0.0445	0.0470
4	4	0.260	0.1232	0.1232	0.1407	0.1485	42	212	0.263	0.0313	0.0313	0.0357	0.0377
5	5	0.260	0.1101	0.1101	0.1257	0.1327	43	GAP	0.256	-0.0000	-0.0000	-0.0000	-0.0000
6	6	0.260	0.0997	0.0997	0.1138	0.1201	44	214	0.284	-0.0000	-0.0000	-0.0000	-0.0000
7	7	0.260	0.0821	0.0821	0.0938	0.0990	45	215	0.259	0.0030	0.0030	0.0034	0.0036
8	8	0.260	0.0677	0.0677	0.0774	0.0816	46	306	0.284	0.0000	0.0000	0.0000	0.0000
9	9	0.260	0.0577	0.0577	0.0659	0.0696	47	307	0.284	0.0028	0.0028	0.0032	0.0034
10	10	0.261	0.0529	0.0529	0.0604	0.0637	48	308	0.262	0.0862	0.0862	0.0985	0.1040
11	11	0.261	0.0494	0.0494	0.0564	0.0595	49	309	0.261	0.0848	0.0848	0.0968	0.1022
12	12	0.261	0.0492	0.0492	0.0562	0.0593	50	310	0.261	0.0825	0.0825	0.0942	0.0995
13	13	0.261	0.0473	0.0473	0.0541	0.0571	51	311	0.260	0.0766	0.0766	0.0875	0.0924
14	14	0.262	0.0453	0.0453	0.0518	0.0547	52	312	0.259	0.0581	0.0581	0.0663	0.0700
15	15	0.262	0.0404	0.0404	0.0461	0.0487	53	313	0.259	0.0404	0.0404	0.0461	0.0487
16	16	0.262	0.0408	0.0408	0.0466	0.0492	54	314	0.259	0.0220	0.0220	0.0252	0.0266
17	17	0.262	0.0437	0.0437	0.0499	0.0527	55	315	0.258	0.0141	0.0141	0.0161	0.0170
18	18	0.263	0.0469	0.0469	0.0536	0.0565	56	316	0.258	0.0104	0.0104	0.0119	0.0126
19	19	0.263	0.0511	0.0511	0.0584	0.0616	57	317	0.258	0.0076	0.0076	0.0087	0.0091
20	20	0.263	0.0585	0.0585	0.0669	0.0706	58	318	0.257	0.0051	0.0051	0.0058	0.0061
21	21	0.264	0.0635	0.0635	0.0726	0.0767	59	319	0.257	0.0034	0.0034	0.0039	0.0041
22	22	0.264	0.0668	0.0668	0.0764	0.0806	60	320	0.257	0.0017	0.0017	0.0019	0.0020
23	23	0.264	0.0695	0.0695	0.0794	0.0839	61	506	0.260	0.1403	0.1403	0.1602	0.1691
24	24	0.264	0.0736	0.0736	0.0841	0.0888	62	507	0.260	0.1335	0.1335	0.1525	0.1609
25	25	0.264	0.0746	0.0746	0.0853	0.0901	63	508	0.260	0.1321	0.1321	0.1508	0.1592
26	103	0.267	0.0720	0.0720	0.0823	0.0869	64	509	0.259	0.1178	0.1178	0.1345	0.1420
27	105	0.268	0.0834	0.0834	0.0954	0.1007	65	510	0.259	0.1073	0.1073	0.1225	0.1293
28	107	0.268	0.0908	0.0908	0.1038	0.1097	66	511	0.259	0.1018	0.1018	0.1162	0.1226
29	108	0.267	0.0887	0.0887	0.1014	0.1071	67	512	0.259	0.0833	0.0833	0.0951	0.1004
30	110	0.265	0.0743	0.0743	0.0849	0.0897	68	513	0.259	0.0630	0.0630	0.0719	0.0759
31	111	0.265	0.0657	0.0657	0.0751	0.0793	69	514	0.258	0.0298	0.0298	0.0340	0.0359
32	112	0.264	0.0500	0.0500	0.0572	0.0604	70	515	0.257	0.0139	0.0139	0.0158	0.0167
33	113	0.263	0.0350	0.0350	0.0400	0.0422	71	516	0.257	0.0097	0.0097	0.0110	0.0116
34	114	0.261	0.0157	0.0157	0.0180	0.0190	72	517	0.257	0.0057	0.0057	0.0065	0.0068
35	115	0.260	0.0072	0.0072	0.0082	0.0087	73	518	0.257	0.0045	0.0045	0.0051	0.0054
36	203	0.264	0.0651	0.0651	0.0744	0.0786	74	519	0.257	0.0028	0.0028	0.0032	0.0034
37	205	0.265	0.0623	0.0623	0.0712	0.0752	75	520	0.256	0.0017	0.0017	0.0020	0.0021
38	207	0.264	0.0566	0.0566	0.0647	0.0683							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 162
5.10	3.1767E 06	9.6827E 05	0.305	10.09	1131.2	0.11961E 07	0.3048	1.000	RUN NO. 57
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.6827E 05	9.6827E 05	1.000	148.26	2036.2	514.35	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	309.4	557.0	2.224	1.960	12.210	10.759	6.9986E-04	7.3860E-04	0.393
2	2	294.5	530.1	-0.000	-0.000	12.432	10.954	-1.0751E-07	-1.1334E-07	0.078
3	3	309.7	557.5	1.671	1.473	12.206	10.755	5.2607E-04	5.5520E-04	0.318
4	4	309.7	557.4	1.504	1.325	12.207	10.756	4.7327E-04	4.9948E-04	0.284
5	5	309.8	557.6	1.343	1.184	12.206	10.755	4.2285E-04	4.4627E-04	0.246
6	6	309.7	557.5	1.217	1.072	12.207	10.756	3.8298E-04	4.0419E-04	0.206
7	7	309.9	557.9	1.002	0.883	12.203	10.753	3.1543E-04	3.3290E-04	0.116
8	8	310.0	558.0	0.827	0.728	12.202	10.752	2.6025E-04	2.7466E-04	0.039
9	9	310.2	558.3	0.704	0.621	12.200	10.750	2.2178E-04	2.3407E-04	-0.043
10	10	310.3	558.6	0.645	0.568	12.197	10.747	2.0318E-04	2.1444E-04	-0.077
11	11	310.5	559.0	0.602	0.531	12.194	10.745	1.8976E-04	2.0028E-04	-0.090
12	12	310.9	559.6	0.600	0.529	12.189	10.740	1.8910E-04	1.9959E-04	-0.083
13	13	311.4	560.5	0.577	0.508	12.182	10.734	1.8189E-04	1.9198E-04	-0.082
14	14	311.9	561.3	0.552	0.486	12.175	10.728	1.7415E-04	1.8382E-04	-0.154
15	15	312.0	561.7	0.491	0.433	12.172	10.725	1.5506E-04	1.6367E-04	-0.191
16	16	312.3	562.1	0.496	0.437	12.169	10.722	1.5667E-04	1.6538E-04	-0.155
17	17	312.5	562.5	0.532	0.469	12.165	10.719	1.6798E-04	1.7731E-04	-0.108
18	18	312.9	563.2	0.570	0.502	12.159	10.714	1.8011E-04	1.9013E-04	-0.064
19	19	313.4	564.2	0.621	0.547	12.152	10.707	1.9632E-04	2.0725E-04	-0.005
20	20	313.7	564.6	0.711	0.627	12.148	10.704	2.2495E-04	2.3747E-04	0.076
21	21	313.9	565.1	0.772	0.680	12.144	10.701	2.4422E-04	2.5783E-04	0.100
22	22	314.0	565.2	0.812	0.715	12.143	10.700	2.5690E-04	2.7122E-04	0.108
23	23	314.2	565.6	0.844	0.743	12.139	10.697	2.6712E-04	2.8201E-04	0.117
24	24	314.6	566.3	0.893	0.787	12.134	10.692	2.8276E-04	2.9853E-04	0.124
25	25	314.0	565.3	0.906	0.799	12.143	10.699	2.8688E-04	3.0287E-04	0.131
26	103	318.1	572.7	0.870	0.766	12.082	10.646	2.7672E-04	2.9223E-04	0.118
27	105	319.4	574.8	1.006	0.886	12.064	10.630	3.2057E-04	3.3856E-04	0.125
28	107	318.6	573.5	1.096	0.966	12.075	10.640	3.4909E-04	3.6866E-04	0.126
29	108	317.5	571.5	1.072	0.945	12.091	10.654	3.4086E-04	3.5994E-04	-0.081
30	110	316.1	568.9	0.900	0.793	12.113	10.673	2.8555E-04	3.0150E-04	-0.348
31	111	315.3	567.6	0.797	0.702	12.123	10.682	2.5261E-04	2.6671E-04	-0.236
32	112	314.0	565.2	0.688	0.606	12.143	10.700	1.9229E-04	2.0300E-04	-0.071
33	113	313.1	563.6	0.425	0.375	12.156	10.712	1.3449E-04	1.4197E-04	0.039
34	114	311.3	560.4	0.191	0.169	12.182	10.734	6.0394E-05	6.3746E-05	-0.258
35	115	309.8	557.7	0.088	0.077	12.205	10.754	2.7583E-05	2.9111E-05	-0.871
36	203	314.5	566.1	0.790	0.696	12.136	10.693	2.5025E-04	2.6420E-04	0.066
37	205	315.2	567.4	0.756	0.666	12.125	10.684	2.3958E-04	2.5295E-04	0.040
38	207	315.0	566.9	0.686	0.605	12.129	10.687	2.1743E-04	2.2956E-04	0.020
39	208	314.3	565.7	0.651	0.574	12.139	10.696	2.0619E-04	2.1768E-04	-0.076
40	210	313.2	563.8	0.559	0.493	12.155	10.710	1.7676E-04	1.8659E-04	-0.269
41	211	311.4	560.6	0.475	0.419	12.181	10.733	1.4985E-04	1.5817E-04	-0.227
42	212	313.4	564.2	0.380	0.335	12.152	10.707	1.2018E-04	1.2687E-04	0.380
43	GAP	305.3	549.6	-0.000	-0.000	12.272	10.813	-0.0000E-39	-0.0000E-39	2.802
44	214	338.7	609.6	-0.000	-0.000	11.780	10.379	-7.7766E-08	-8.2250E-08	1.532
45	215	307.9	554.3	0.037	0.032	12.233	10.779	1.1513E-05	1.2149E-05	-0.550
46	306	338.7	609.7	0.000	0.000	11.779	10.379	9.9787E-08	1.0554E-07	1.883
47	307	338.5	609.3	0.033	0.029	11.782	10.382	1.0662E-05	1.1277E-05	-0.740
48	308	311.6	561.0	1.050	0.925	12.178	10.730	3.3126E-04	3.4965E-04	0.060
49	309	311.1	559.9	1.033	0.910	12.187	10.738	3.2578E-04	3.4385E-04	-0.077
50	310	310.6	559.1	1.006	0.886	12.194	10.744	3.1697E-04	3.3454E-04	-0.055
51	311	309.9	557.8	0.935	0.824	12.204	10.753	2.9441E-04	3.1072E-04	0.015
52	312	308.7	555.7	0.710	0.625	12.221	10.768	2.2304E-04	2.3537E-04	0.245
53	313	308.0	554.4	0.494	0.435	12.231	10.778	1.5519E-04	1.6377E-04	0.316
54	314	308.2	554.8	0.270	0.238	12.229	10.775	8.4697E-05	8.9378E-05	0.250
55	315	307.6	553.7	0.173	0.152	12.237	10.783	5.4245E-05	5.7240E-05	0.197
56	316	307.2	552.9	0.128	0.113	12.244	10.788	4.0056E-05	4.2267E-05	0.227
57	317	306.7	552.1	0.093	0.082	12.251	10.795	2.9149E-05	3.0757E-05	0.278
58	318	306.6	551.9	0.062	0.055	12.253	10.796	1.9538E-05	2.0615E-05	0.222
59	319	306.4	551.5	0.042	0.037	12.256	10.799	1.3173E-05	1.3899E-05	0.423
60	320	306.3	551.4	0.020	0.018	12.256	10.799	6.3848E-06	6.7367E-06	0.713
61	506	310.2	558.4	1.711	1.508	12.199	10.749	5.3893E-04	5.6880E-04	0.248
62	507	309.8	557.7	1.629	1.436	12.205	10.754	5.1285E-04	5.4126E-04	0.233
63	508	309.1	556.3	1.614	1.422	12.216	10.764	5.0739E-04	5.3547E-04	0.175
64	509	308.2	554.7	1.441	1.270	12.229	10.776	4.5260E-04	4.7761E-04	-0.005
65	510	308.5	555.3	1.311	1.155	12.224	10.771	4.1207E-04	4.3485E-04	-0.055
66	511	308.5	555.3	1.244	1.096	12.224	10.771	3.9086E-04	4.1247E-04	-0.044
67	512	308.3	554.9	1.019	0.897	12.228	10.774	3.1997E-04	3.3765E-04	0.152
68	513	308.0	554.5	0.771	0.679	12.231	10.777	2.4208E-04	2.5537E-04	0.270
69	514	307.3	553.1	0.365	0.321	12.242	10.787	1.1441E-04	1.2072E-04	0.194
70	515	306.5	551.8	0.170	0.150	12.253	10.797	5.3229E-05	5.6164E-05	-0.177
71	516	306.4	551.5	0.118	0.104	12.256	10.799	3.7065E-05	3.9108E-05	-0.181
72	517	306.2	551.2	0.070	0.061	12.258	10.801	2.1814E-05	2.3016E-05	-0.341
73	518	305.8	550.4	0.055	0.048	12.264	10.807	1.7150E-05	1.8095E-05	-0.216
74	519	305.6	550.0	0.034	0.030	12.268	10.810	1.0800E-05	1.1395E-05	-0.245
75	520	305.1	549.1	0.021	0.019	12.275	10.816	6.7167E-06	7.0863E-06	0.320

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6111E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.696	7.909	7.457
PT2/PT1	5.191E-02	5.335E-02	5.029E-02
TEMP(DEG R)	2064.9	2065.5	2131.0
TT2/TT1	1.0141	1.0144	1.0465

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 58 FRAME 26 TO 52 CONSTANT SET1543

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2010E 07	302.07	2013.51	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PDS
0.000	302.434	2013.256	0.302	0.401	749.102	-0.280	17.6052
0.070	302.251	2013.517	0.297	0.429	750.023	-0.293	17.6092
0.140	302.067	2013.385	0.297	0.599	752.781	-0.306	17.6092
0.210	302.067	2014.298	0.310	1.764	771.035	-0.293	17.6132
0.280	302.251	2013.775	0.411	4.683	900.583	-0.280	17.6011
0.350	302.251	2013.645	1.790	7.838	1469.767	-0.293	17.6011
0.420	302.251	2013.255	5.786	10.605	1878.488	-0.319	17.6052
0.490	302.067	2012.729	10.335	13.460	1989.992	-0.306	17.6052
0.560	302.067	2013.905	13.064	15.273	2016.819	-0.306	17.6052
0.630	302.251	2013.776	14.678	15.887	2032.454	-0.306	17.6052
0.700	302.067	2013.254	15.584	15.737	2034.405	-0.280	17.6052
0.770	302.067	2012.994	16.155	15.189	2040.252	-0.306	24.5617
0.840	302.067	2012.990	16.213	14.720	2049.335	-0.306	34.9117
0.910	302.067	2013.514	16.118	14.581	2058.400	-0.319	34.9158
0.980	302.251	2014.037	16.039	14.717	2063.870	-0.293	34.9198
1.050	302.251	2012.993	15.989	14.914	2063.573	-0.293	34.9238
1.120	302.067	2012.994	15.991	15.109	2057.753	-0.306	34.9158
1.190	302.067	2012.994	16.002	15.270	2069.386	-0.319	34.9279
1.260	302.067	2013.644	16.002	15.401	2060.341	-0.319	34.9279
1.330	302.434	2013.645	16.012	15.470	2063.573	-0.306	34.9238
1.400	302.251	2012.599	16.020	15.509	2055.812	-0.293	34.9279
1.470	302.251	2013.124	16.018	15.526	2073.257	-0.319	34.9238
1.540	302.067	2012.469	16.012	15.581	2091.926	-0.319	34.9319
1.610	302.067	2013.119	16.010	15.634	2062.927	-0.319	34.9279
1.680	302.434	2013.118	16.010	15.701	2088.069	-0.293	34.9238
1.750	302.434	2012.728	16.015	15.732	2101.555	-0.293	34.9238
1.820	302.251	2012.078	16.028	15.776	2097.064	-0.306	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALI-. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	0.5957E 06	2.0104E 06	0.305	20.55	1118.6	0.11815E 07	0.3048	1.000	RUN NO. 58
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0104E 06	2.0104E 06	1.000	302.07	2013.5	508.07	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.268	0.3106	0.3106	0.3552	0.3752	39	208	0.272	0.1091	0.1091	0.1249	0.1320
2	2	0.268	0.3114	0.3114	0.3562	0.3762	40	210	0.271	0.0900	0.0900	0.1030	0.1088
3	3	0.268	0.3053	0.3053	0.3492	0.3688	41	211	0.267	0.0776	0.0776	0.0887	0.0937
4	4	0.268	0.3145	0.3145	0.3597	0.3799	42	212	0.267	0.0616	0.0616	0.0705	0.0744
5	5	0.268	0.3165	0.3165	0.3620	0.3823	43	GAP	0.260	-0.0000	-0.0000	-0.0000	-0.0000
6	6	0.268	0.3229	0.3229	0.3693	0.3900	44	214	0.288	0.0000	0.0000	0.0001	0.0001
7	7	0.268	0.3329	0.3329	0.3807	0.4021	45	215	0.263	0.0145	0.0145	0.0165	0.0175
8	8	0.268	0.3280	0.3280	0.3751	0.3962	46	306	0.288	0.0000	0.0000	0.0000	0.0000
9	9	0.268	0.3133	0.3133	0.3583	0.3784	47	307	0.289	0.0815	0.0815	0.0936	0.0990
10	10	0.268	0.2814	0.2814	0.3219	0.3399	48	308	0.268	0.2695	0.2695	0.3083	0.3256
11	11	0.268	0.2292	0.2292	0.2622	0.2769	49	309	0.268	0.2573	0.2573	0.2943	0.3108
12	12	0.269	0.1866	0.1866	0.2135	0.2254	50	310	0.267	0.2478	0.2478	0.2834	0.2993
13	13	0.269	0.1556	0.1555	0.1780	0.1880	51	311	0.266	0.2316	0.2316	0.2648	0.2797
14	14	0.269	0.1424	0.1424	0.1629	0.1721	52	312	0.265	0.1771	0.1771	0.2024	0.2137
15	15	0.270	0.0928	0.0928	0.1061	0.1121	53	313	0.263	0.1342	0.1342	0.1533	0.1619
16	16	0.270	0.0598	0.0598	0.0684	0.0722	54	314	0.263	0.0792	0.0792	0.0905	0.0955
17	17	0.270	0.0513	0.0513	0.0586	0.0620	55	315	0.263	0.0501	0.0501	0.0572	0.0604
18	18	0.271	0.0516	0.0516	0.0591	0.0624	56	316	0.262	0.0352	0.0352	0.0402	0.0424
19	19	0.271	0.0563	0.0563	0.0645	0.0681	57	317	0.261	0.0239	0.0239	0.0273	0.0288
20	20	0.272	0.0613	0.0613	0.0701	0.0741	58	318	0.261	0.0168	0.0168	0.0192	0.0202
21	21	0.272	0.0643	0.0643	0.0736	0.0778	59	319	0.261	0.0105	0.0105	0.0120	0.0127
22	22	0.272	0.0676	0.0676	0.0774	0.0817	60	320	0.261	0.0059	0.0059	0.0067	0.0071
23	23	0.272	0.0702	0.0702	0.0803	0.0849	61	506	0.268	0.2455	0.2455	0.2808	0.2966
24	24	0.273	0.0737	0.0737	0.0843	0.0891	62	507	0.267	0.2314	0.2314	0.2647	0.2795
25	25	0.272	0.0734	0.0734	0.0841	0.0888	63	508	0.267	0.2149	0.2149	0.2457	0.2595
26	103	0.276	0.0799	0.0799	0.0915	0.0967	64	509	0.266	0.1800	0.1800	0.2057	0.2172
27	105	0.278	0.1002	0.1002	0.1148	0.1214	65	510	0.266	0.1624	0.1624	0.1857	0.1960
28	107	0.277	0.1318	0.1318	0.1510	0.1596	66	511	0.266	0.1510	0.1510	0.1726	0.1822
29	108	0.276	0.1430	0.1430	0.1638	0.1731	67	512	0.265	0.1204	0.1204	0.1376	0.1453
30	110	0.274	0.1269	0.1269	0.1453	0.1535	68	513	0.265	0.0956	0.0956	0.1092	0.1153
31	111	0.273	0.1134	0.1134	0.1298	0.1371	69	514	0.264	0.0501	0.0501	0.0573	0.0605
32	112	0.271	0.0899	0.0899	0.1029	0.1087	70	515	0.262	0.0317	0.0317	0.0362	0.0382
33	113	0.270	0.0658	0.0658	0.0753	0.0796	71	516	0.262	0.0250	0.0250	0.0285	0.0301
34	114	0.268	0.0327	0.0327	0.0374	0.0395	72	517	0.262	0.0188	0.0188	0.0215	0.0227
35	115	0.266	0.0169	0.0169	0.0193	0.0204	73	518	0.261	0.0156	0.0156	0.0178	0.0188
36	203	0.272	0.1627	0.1627	0.1862	0.1967	74	519	0.261	0.0146	0.0146	0.0166	0.0176
37	205	0.273	0.1540	0.1540	0.1764	0.1863	75	520	0.260	0.0132	0.0132	0.0151	0.0159
38	207	0.273	0.1228	0.1228	0.1405	0.1485							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10	RE/METER 2.0104E 06	REL 2.0104E 05	LENGTH(METER) 0.305	PT(ATM) 20.55	TT(DEG K) 1118.6	HT(JOULE/ G) 0.11815E 07	RS(METER) 0.3048	HAM/HT 1.000	TEST NO. 182	
MACH 5.10	RE/FT 2.0104E 06	REL 2.0104E 06	LENGTH(FT) 1.000	PT(PSI) 302.07	TT(DEG R) 2013.5	HT(BTU/LBM) 508.07	RS(FT) 1.0000	HAM/HT 1.000	RUN NO. 58	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	315.2	567.4	5.287	4.658	17.021	14.998	8.2496E-04	8.7652E-04	0.387
2	2	315.5	568.0	5.298	4.668	17.015	14.992	8.3211E-04	8.7881E-04	0.370
3	3	315.3	567.5	5.196	4.579	17.020	14.997	8.1584E-04	8.6161E-04	0.375
4	4	315.1	567.3	5.354	4.718	17.023	14.999	8.4047E-04	8.8761E-04	0.373
5	5	315.3	567.5	5.387	4.747	17.020	14.997	8.4574E-04	8.9319E-04	0.368
6	6	315.1	567.1	5.496	4.843	17.024	15.001	8.6272E-04	9.1111E-04	0.366
7	7	315.1	567.2	5.667	4.993	17.023	15.000	8.8951E-04	9.3941E-04	0.366
8	8	315.2	567.3	5.583	4.919	17.022	14.999	8.7642E-04	9.2558E-04	0.370
9	9	315.2	567.3	5.333	4.699	17.022	14.999	8.3714E-04	8.8410E-04	0.363
10	10	315.2	567.4	4.790	4.220	17.021	14.998	7.5198E-04	7.9417E-04	0.354
11	11	315.5	567.8	3.900	3.437	17.016	14.993	6.1250E-04	6.4687E-04	0.324
12	12	315.9	568.6	3.174	2.797	17.006	14.986	4.9868E-04	5.2669E-04	0.282
13	13	316.4	569.6	2.644	2.330	16.996	14.975	4.1575E-04	4.3911E-04	0.260
14	14	317.0	570.6	2.419	2.131	16.984	14.965	3.8060E-04	4.0200E-04	0.244
15	15	317.1	570.7	1.575	1.388	16.982	14.964	2.4792E-04	2.6186E-04	0.095
16	16	317.5	571.5	1.014	0.894	16.974	14.956	1.5970E-04	1.6869E-04	-0.140
17	17	317.8	572.1	0.870	0.766	16.966	14.950	1.3700E-04	1.4471E-04	-0.210
18	18	318.5	573.3	0.875	0.771	16.952	14.937	1.3796E-04	1.4574E-04	-0.177
19	19	319.2	574.5	0.954	0.841	16.938	14.924	1.5063E-04	1.5913E-04	-0.090
20	20	319.5	575.1	1.038	0.914	16.931	14.919	1.6383E-04	1.7308E-04	-0.027
21	21	319.7	575.4	1.089	0.960	16.927	14.915	1.7200E-04	1.8171E-04	-0.025
22	22	320.0	576.0	1.143	1.008	16.921	14.910	1.8065E-04	1.9086E-04	-0.009
23	23	320.2	576.4	1.187	1.046	16.915	14.905	1.8761E-04	1.9821E-04	0.004
24	24	320.6	577.0	1.246	1.098	16.908	14.899	1.9695E-04	2.0809E-04	0.003
25	25	320.0	575.9	1.243	1.095	16.921	14.910	1.9631E-04	2.0740E-04	-0.000
26	103	324.9	584.8	1.344	1.184	16.818	14.819	2.1368E-04	2.2584E-04	0.043
27	105	326.5	587.6	1.682	1.482	16.785	14.790	2.6802E-04	2.8330E-04	0.099
28	107	325.7	586.2	2.214	1.951	16.831	14.804	3.5246E-04	3.7252E-04	0.159
29	109	324.2	583.6	2.407	2.121	16.831	14.831	3.8243E-04	4.0416E-04	-0.018
30	110	322.2	580.0	2.141	1.887	16.874	14.868	3.3930E-04	3.5853E-04	-0.315
31	111	321.2	578.2	1.915	1.688	16.895	14.887	3.0307E-04	3.2022E-04	-0.258
32	112	319.3	574.7	1.522	1.341	16.936	14.923	2.4029E-04	2.5384E-04	-0.064
33	113	317.6	571.7	1.117	0.984	16.971	14.954	1.7595E-04	1.8584E-04	0.059
34	114	315.1	567.2	0.557	0.490	17.024	15.000	8.7372E-05	9.2273E-05	-0.184
35	115	312.9	563.2	0.288	0.254	17.071	15.042	4.5139E-05	4.7663E-05	-0.670
36	203	320.1	576.1	2.752	2.425	16.919	14.908	4.3491E-04	4.5947E-04	0.202
37	205	321.2	578.1	2.603	2.293	16.896	14.887	4.1184E-04	4.3515E-04	0.190
38	207	320.9	577.6	2.075	1.828	16.902	14.893	3.2821E-04	3.4677E-04	0.156
39	208	320.0	576.0	1.847	1.627	16.921	14.910	2.9173E-04	3.0821E-04	0.090
40	210	318.4	573.1	1.526	1.344	16.954	14.939	2.4056E-04	2.5412E-04	-0.109
41	211	314.5	566.1	1.322	1.165	17.036	15.011	2.0732E-04	2.1894E-04	-0.073
42	212	313.8	564.9	1.051	0.926	17.051	15.024	1.6464E-04	1.7386E-04	0.083
43	GAP	305.8	550.4	-0.000	-0.000	17.220	15.173	-0.0000E-39	-0.0000E-39	13.218
44	214	338.6	609.5	0.001	0.001	16.530	14.565	1.2857E-07	1.3603E-07	1.572
45	215	309.3	556.7	0.248	0.219	17.147	15.109	3.8656E-05	4.0806E-05	-0.343
46	306	338.7	609.7	0.000	0.000	16.527	14.563	6.1785E-08	6.5370E-08	1.710
47	307	340.3	612.5	1.344	1.184	16.495	14.534	2.1823E-04	2.3092E-04	0.579
48	308	319.8	568.5	4.584	4.039	17.009	14.987	7.7023E-04	7.6067E-04	0.300
49	309	314.9	566.8	4.382	3.861	17.029	15.005	6.8765E-04	7.2621E-04	0.182
50	310	314.4	565.9	4.222	3.721	17.038	15.013	6.6216E-04	6.9927E-04	0.178
51	311	313.5	564.2	3.951	3.481	17.058	15.031	6.1883E-04	6.5346E-04	0.208
52	312	311.8	561.2	3.027	2.667	17.094	15.062	4.7299E-04	4.9940E-04	0.370
53	313	309.4	556.9	2.301	2.027	17.144	15.106	3.5843E-04	3.7838E-04	0.440
54	314	309.7	557.4	1.357	1.196	17.138	15.101	2.1150E-04	2.2327E-04	0.409
55	315	308.9	556.1	0.859	0.757	17.154	15.115	1.3374E-04	1.4118E-04	0.352
56	316	308.2	554.7	0.684	0.602	17.170	15.129	9.3988E-05	9.9210E-05	0.341
57	317	307.5	553.5	0.413	0.364	17.184	15.141	6.3728E-05	6.7265E-05	0.328
58	318	307.3	553.1	0.289	0.254	17.189	15.145	4.4835E-05	4.7323E-05	0.301
59	319	306.9	552.4	0.180	0.159	17.196	15.152	2.8021E-05	2.9575E-05	0.327
60	320	306.9	552.2	0.102	0.090	17.199	15.155	1.5779E-05	1.6654E-05	0.409
61	505	315.1	567.1	4.180	3.683	17.025	15.001	6.5611E-04	6.9291E-04	0.271
62	507	314.6	566.2	3.942	3.474	17.035	15.010	6.1836E-04	6.5302E-04	0.275
63	508	313.8	564.8	3.665	3.229	17.052	15.025	5.7421E-04	6.0636E-04	0.224
64	509	312.5	562.5	3.073	2.708	17.078	15.048	4.8075E-04	5.0762E-04	0.012
65	510	312.7	562.9	2.773	2.443	17.074	15.044	4.3387E-04	4.5812E-04	-0.071
66	511	312.6	562.7	2.578	2.272	17.076	15.046	4.0332E-04	4.2588E-04	-0.097
67	512	312.1	561.8	2.057	1.812	17.087	15.056	3.2159E-04	3.3956E-04	0.020
68	513	311.4	560.5	1.635	1.440	17.101	15.069	2.5531E-04	2.6956E-04	0.150
69	514	310.0	558.1	0.859	0.757	17.130	15.094	1.3391E-04	1.4137E-04	0.027
70	515	308.6	555.6	0.543	0.479	17.160	15.120	8.4581E-05	8.9282E-05	-0.157
71	516	308.3	555.0	0.428	0.377	17.166	15.126	6.6642E-05	7.0345E-05	-0.169
72	517	307.9	554.1	0.324	0.285	17.176	15.135	5.0296E-05	5.3089E-05	-0.271
73	518	307.3	553.1	0.268	0.236	17.189	15.147	4.1603E-05	4.3911E-05	-0.236
74	519	306.8	552.3	0.251	0.221	17.198	15.154	3.8898E-05	4.1050E-05	-0.073
75	520	306.3	551.4	0.227	0.200	17.208	15.163	3.5289E-05	3.7245E-05	0.151

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3647E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

RUN 58

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.321	16.028	15.776
PT2/PT1	5.403E-02	5.306E-02	5.223E-02
TEMP(DEG R)	2088.1	2097.1	2111.2
TT2/TT1	1.0370	1.0415	1.0485

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 59 FRAME 26 TO 52 CONSTANT SET1541

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1046E 07	155.95	2004.36	1.0000

T(SEC)	PT(PSIA)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	155.765	2003.968	0.158	0.197	704.149	-0.293	17.6092
0.070	155.582	2004.229	0.153	0.213	705.101	-0.293	17.6092
0.140	155.765	2004.619	0.153	0.344	705.101	-0.280	17.6132
0.210	155.948	2005.273	0.158	1.036	718.360	-0.293	17.6132
0.280	155.948	2004.619	0.272	2.621	899.746	-0.267	17.6011
0.350	155.765	2003.706	1.268	4.178	1388.735	-0.280	17.5971
0.420	155.765	2003.837	3.387	5.635	1760.323	-0.306	17.6092
0.490	155.765	2003.837	5.503	7.042	1895.243	-0.306	17.6132
0.560	155.765	2005.140	6.743	7.918	1931.904	-0.306	17.6132
0.630	155.765	2004.490	7.564	8.201	1925.259	-0.280	17.6052
0.700	155.948	2003.314	8.083	8.068	1944.505	-0.293	31.4698
0.770	155.948	2003.708	8.321	7.637	1955.752	-0.306	34.9077
0.840	155.948	2003.578	8.348	7.331	1968.950	-0.293	34.8916
0.910	155.948	2004.359	8.313	7.292	1993.272	-0.293	34.9279
0.980	155.948	2003.446	8.287	7.386	2008.329	-0.293	34.9238
1.050	155.948	2003.052	8.268	7.523	2005.714	-0.293	34.9279
1.120	155.765	2003.185	8.250	7.637	1992.616	-0.306	34.9279
1.190	155.765	2003.315	8.234	7.726	1994.583	-0.306	34.9359
1.260	155.948	2004.358	8.234	7.806	1997.204	-0.293	34.9319
1.330	155.948	2003.967	8.260	7.865	2014.861	-0.293	34.9279
1.400	155.948	2003.053	8.287	7.901	2036.355	-0.293	34.9279
1.470	155.765	2003.446	8.287	7.920	2018.124	-0.306	34.9279
1.540	155.765	2003.183	8.260	7.956	2021.385	-0.293	34.9319
1.610	155.948	2003.967	8.252	7.956	2023.991	-0.293	34.9319
1.680	155.948	2003.706	8.247	7.943	2014.861	-0.293	34.9238
1.750	156.131	2003.052	8.234	7.956	2027.899	-0.293	34.9279
1.820	155.765	2002.922	8.244	7.998	2039.603	-0.319	34.9319

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.4314E 06	1.0459E 00	0.305	10.61	1113.5	0.11756E 07	0.3048	1.000	RUN NO.	59
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0459E 06	1.0459E 06	1.000	155.95	2004.4	505.54	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.264	0.2663	0.2663	0.3043	0.3213	39	208	0.267	0.0781	0.0781	0.0894	0.0944
2	2	0.264	0.2656	0.2656	0.3036	0.3205	40	210	0.266	0.0657	0.0657	0.0751	0.0793
3	3	0.264	0.2525	0.2525	0.2886	0.3047	41	211	0.265	0.0580	0.0580	0.0663	0.0700
4	4	0.264	0.2487	0.2487	0.2842	0.3001	42	212	0.264	0.0472	0.0472	0.0539	0.0569
5	5	0.264	0.2404	0.2404	0.2747	0.2901	43	GAP	0.260	0.0000	0.0000	0.0000	0.0000
6	6	0.264	0.2317	0.2317	0.2648	0.2796	44	214	0.289	0.0000	0.0000	0.0000	0.0000
7	7	0.264	0.2142	0.2142	0.2449	0.2585	45	215	0.262	0.0114	0.0114	0.0130	0.0138
8	8	0.264	0.1894	0.1894	0.2164	0.2285	46	306	0.289	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.264	0.1676	0.1676	0.1915	0.2022	47	307	0.265	0.2139	0.2139	0.2445	0.2582
10	10	0.264	0.1456	0.1456	0.1664	0.1757	48	308	0.264	0.2064	0.2064	0.2359	0.2490
11	11	0.264	0.1227	0.1227	0.1402	0.1480	49	309	0.264	0.1920	0.1920	0.2194	0.2316
12	12	0.264	0.1110	0.1110	0.1268	0.1339	50	310	0.264	0.1835	0.1835	0.2097	0.2213
13	13	0.265	0.0920	0.0920	0.1052	0.1110	51	311	0.263	0.1699	0.1699	0.1941	0.2049
14	14	0.265	0.0793	0.0793	0.0906	0.0957	52	312	0.262	0.1289	0.1289	0.1472	0.1554
15	15	0.265	0.0583	0.0583	0.0666	0.0704	53	313	0.261	0.1009	0.1009	0.1153	0.1217
16	16	0.265	0.0460	0.0460	0.0526	0.0555	54	314	0.261	0.0615	0.0615	0.0703	0.0742
17	17	0.266	0.0432	0.0432	0.0494	0.0522	55	315	0.261	0.0406	0.0406	0.0464	0.0489
18	18	0.267	0.0469	0.0469	0.0537	0.0567	56	316	0.261	0.0294	0.0294	0.0336	0.0355
19	19	0.267	0.0555	0.0555	0.0634	0.0670	57	317	0.260	0.0217	0.0217	0.0248	0.0262
20	20	0.268	0.0621	0.0621	0.0711	0.0750	58	318	0.260	0.0164	0.0164	0.0188	0.0198
21	21	0.268	0.0664	0.0664	0.0759	0.0802	59	319	0.260	0.0120	0.0120	0.0137	0.0144
22	22	0.268	0.0693	0.0693	0.0792	0.0837	60	320	0.260	0.0074	0.0074	0.0085	0.0089
23	23	0.268	0.0710	0.0710	0.0812	0.0857	61	506	0.264	0.2577	0.2577	0.2945	0.3109
24	24	0.269	0.0738	0.0738	0.0844	0.0892	62	507	0.264	0.2475	0.2475	0.2828	0.2986
25	25	0.268	0.0738	0.0738	0.0844	0.0891	63	508	0.263	0.2415	0.2415	0.2759	0.2913
26	103	0.271	0.0653	0.0653	0.0748	0.0790	64	509	0.263	0.2251	0.2251	0.2572	0.2715
27	105	0.272	0.0740	0.0740	0.0847	0.0895	65	510	0.263	0.2134	0.2134	0.2438	0.2574
28	107	0.272	0.1093	0.1093	0.1250	0.1321	66	511	0.263	0.2064	0.2064	0.2359	0.2490
29	108	0.271	0.1290	0.1290	0.1476	0.1559	67	512	0.263	0.1807	0.1807	0.2064	0.2179
30	110	0.270	0.1196	0.1196	0.1369	0.1446	68	513	0.262	0.1513	0.1513	0.1729	0.1825
31	111	0.269	0.1073	0.1073	0.1227	0.1296	69	514	0.262	0.0979	0.0979	0.1118	0.1180
32	112	0.268	0.0845	0.0845	0.0966	0.1020	70	515	0.261	0.0686	0.0686	0.0784	0.0827
33	113	0.267	0.0596	0.0596	0.0682	0.0720	71	516	0.261	0.0519	0.0519	0.0593	0.0626
34	114	0.266	0.0296	0.0296	0.0338	0.0357	72	517	0.261	0.0388	0.0388	0.0443	0.0468
35	115	0.264	0.0149	0.0149	0.0170	0.0179	73	518	0.260	0.0272	0.0272	0.0311	0.0328
36	203	0.267	0.0921	0.0921	0.1053	0.1112	74	519	0.260	0.0212	0.0212	0.0242	0.0256
37	205	0.268	0.1021	0.1021	0.1167	0.1233	75	520	0.260	0.0118	0.0118	0.0135	0.0142
38	207	0.268	0.0870	0.0870	0.0995	0.1051							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JCULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.4314E 06	1.0459E 06	0.305	10.61	1113.5	0.11756E 07	0.3048	1.000	RUN NO.	59
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	HAW/HT		
5.10	1.0459E C6	1.0459E C6	1.000	155.95	2004.4	505.54	1.0000	1.000		

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	309.1	556.4	3.259	2.872	12.240	10.785	9.8666E-04	1.0417E-03	0.359
2	2	309.4	556.9	3.250	2.863	12.235	10.781	9.8416E-04	1.0390E-03	0.346
3	3	309.4	556.9	3.090	2.723	12.236	10.781	9.3575E-04	9.8794E-04	0.345
4	4	309.3	556.8	3.043	2.681	12.237	10.782	9.2147E-04	9.7285E-04	0.334
5	5	309.4	556.8	2.941	2.592	12.236	10.782	8.9075E-04	9.4042E-04	0.323
6	6	309.2	556.5	2.836	2.499	12.239	10.784	8.5866E-04	9.0653E-04	0.315
7	7	309.2	556.6	2.622	2.310	12.238	10.783	7.9384E-04	8.3810E-04	0.303
8	8	309.2	556.6	2.317	2.042	12.238	10.783	7.0164E-04	7.4076E-04	0.289
9	9	309.1	556.4	2.051	1.807	12.239	10.784	6.2099E-04	6.5561E-04	0.269
10	10	309.1	556.4	1.782	1.571	12.240	10.785	5.3957E-04	5.6965E-04	0.242
11	11	309.1	556.5	1.501	1.323	12.239	10.784	4.5452E-04	4.7986E-04	0.216
12	12	309.3	556.7	1.358	1.196	12.237	10.783	4.1112E-04	4.3404E-04	0.203
13	13	309.6	557.4	1.125	0.992	12.232	10.778	3.4095E-04	3.5997E-04	0.173
14	14	310.1	558.1	0.969	0.854	12.225	10.772	2.9378E-04	3.1017E-04	0.119
15	15	310.3	558.5	0.712	0.628	12.222	10.769	2.1602E-04	2.2809E-04	0.039
16	16	310.8	559.4	0.562	0.496	12.215	10.763	1.7065E-04	1.8019E-04	-0.058
17	17	311.3	560.4	0.527	0.465	12.206	10.755	1.6015E-04	1.6910E-04	-0.125
18	18	312.2	561.9	0.572	0.504	12.193	10.744	1.7397E-04	1.8371E-04	-0.078
19	19	313.0	563.3	0.675	0.595	12.181	10.733	2.0554E-04	2.1706E-04	0.036
20	20	313.5	564.2	0.756	0.667	12.174	10.727	2.3032E-04	2.4324E-04	0.092
21	21	313.9	564.9	0.807	0.711	12.168	10.722	2.4599E-04	2.5980E-04	0.105
22	22	314.0	565.2	0.843	0.742	12.165	10.719	2.5674E-04	2.7115E-04	0.121
23	23	314.1	565.4	0.863	0.761	12.164	10.718	2.6304E-04	2.7781E-04	0.128
24	24	314.3	565.8	0.897	0.791	12.161	10.715	2.7358E-04	2.8894E-04	0.129
25	25	313.8	564.8	0.898	0.791	12.169	10.723	2.7347E-04	2.8881E-04	0.131
26	103	317.5	571.4	0.792	0.697	12.113	10.673	2.4231E-04	2.5598E-04	0.141
27	105	318.4	573.1	0.895	0.789	12.099	10.661	2.7441E-04	2.8991E-04	0.168
28	107	317.9	572.2	1.323	1.166	12.107	10.668	4.0515E-04	4.2802E-04	0.227
29	108	316.9	570.3	1.563	1.377	12.122	10.681	4.7817E-04	5.0512E-04	0.120
30	110	315.5	567.9	1.453	1.280	12.143	10.700	4.4353E-04	4.6848E-04	-0.050
31	111	314.8	566.7	1.303	1.149	12.153	10.708	3.9764E-04	4.1998E-04	0.002
32	112	313.6	564.4	1.028	0.906	12.172	10.726	3.1307E-04	3.3063E-04	0.156
33	113	312.6	562.6	0.727	0.640	12.187	10.739	2.2107E-04	2.3345E-04	0.215
34	114	310.9	559.6	0.361	0.318	12.213	10.761	1.0960E-04	1.1572E-04	0.077
35	115	309.5	557.1	0.182	0.160	12.234	10.779	5.5087E-05	5.8159E-05	-0.152
36	203	313.0	563.5	1.122	0.988	12.180	10.732	3.4135E-04	3.6049E-04	0.160
37	205	313.8	564.8	1.242	1.094	12.169	10.722	3.7831E-04	3.9953E-04	0.167
38	207	313.6	564.4	1.059	0.933	12.172	10.726	3.2247E-04	3.4056E-04	0.111
39	208	312.9	563.3	0.952	0.839	12.182	10.734	2.8965E-04	3.0589E-04	0.029
40	210	311.9	561.4	0.801	0.706	12.198	10.748	2.4338E-04	2.5700E-04	-0.118
41	211	309.9	557.8	0.709	0.625	12.228	10.774	2.1481E-04	2.2680E-04	-0.078
42	212	309.3	556.8	0.577	0.509	12.236	10.782	1.7477E-04	1.8451E-04	0.063
43	GAP	304.2	547.6	0.000	0.000	12.314	10.850	0.0000E-39	0.0000E-39	-4.221
44	214	338.7	609.6	0.000	0.000	11.793	10.392	9.9580E-08	1.0537E-07	1.146
45	215	306.4	551.6	0.140	0.123	12.280	10.821	4.2254E-05	4.4600E-05	-0.079
46	206	338.7	609.7	-0.000	-0.000	11.793	10.391	-4.8099E-08	-5.0896E-08	1.484
47	307	309.9	557.8	2.616	2.305	12.228	10.774	7.9276E-04	8.3700E-04	0.341
48	308	309.4	556.9	2.525	2.225	12.235	10.781	7.6466E-04	8.0730E-04	0.301
49	309	308.8	555.9	2.351	2.071	12.244	10.788	7.1139E-04	7.5104E-04	0.220
50	310	308.6	555.4	2.247	1.980	12.248	10.792	6.7978E-04	7.1765E-04	0.231
51	311	308.0	554.5	2.082	1.834	12.256	10.799	6.2934E-04	6.6437E-04	0.263
52	312	307.1	552.7	1.581	1.393	12.271	10.812	4.7743E-04	5.0397E-04	0.386
53	313	305.7	550.3	1.241	1.093	12.291	10.830	3.7393E-04	3.9467E-04	0.439
54	314	306.0	550.7	0.756	0.666	12.287	10.827	2.2787E-04	2.4052E-04	0.401
55	315	305.4	549.8	0.499	0.440	12.295	10.834	1.5032E-04	1.5866E-04	0.381
56	316	304.9	548.9	0.362	0.319	12.303	10.840	1.0896E-04	1.1500E-04	0.373
57	317	304.5	548.2	0.267	0.236	12.309	10.846	8.0490E-05	8.4948E-05	0.388
58	318	304.3	547.8	0.202	0.178	12.312	10.848	6.0846E-05	6.4216E-05	0.410
59	319	304.1	547.4	0.147	0.130	12.315	10.851	4.4313E-05	4.6766E-05	0.473
60	320	304.1	547.3	0.091	0.081	12.316	10.852	2.7504E-05	2.9027E-05	0.543
61	506	309.2	556.5	3.153	2.779	12.239	10.784	9.5474E-04	1.0080E-03	0.284
62	507	308.9	556.1	3.030	2.670	12.242	10.787	9.1701E-04	9.6812E-04	0.277
63	508	308.4	555.1	2.958	2.607	12.251	10.795	8.9472E-04	9.4454E-04	0.272
64	509	307.6	553.6	2.761	2.433	12.263	10.805	8.3410E-04	8.8050E-04	0.200
65	510	307.5	553.5	2.617	2.306	12.264	10.806	7.9062E-04	8.3460E-04	0.184
66	511	307.5	553.5	2.532	2.231	12.264	10.806	7.6479E-04	8.0733E-04	0.189
67	512	307.3	553.1	2.216	1.953	12.267	10.809	6.6927E-04	7.0649E-04	0.296
68	513	307.0	552.6	1.857	1.636	12.271	10.813	5.6047E-04	5.9162E-04	0.367
69	514	306.3	551.3	1.202	1.059	12.282	10.822	3.6263E-04	3.8277E-04	0.363
70	515	305.5	549.9	0.844	0.744	12.295	10.833	2.5426E-04	2.6836E-04	0.346
71	516	305.4	549.8	0.638	0.562	12.299	10.834	1.9227E-04	2.0294E-04	0.354
72	517	305.1	549.2	0.477	0.421	12.300	10.838	1.4375E-04	1.5172E-04	0.336
73	518	304.9	548.8	0.335	0.295	12.304	10.841	1.0078E-04	1.0637E-04	0.308
74	519	304.7	548.4	0.261	0.230	12.307	10.844	7.8566E-05	8.2919E-05	0.365
75	520	304.4	547.9	0.165	0.128	12.311	10.848	4.3659E-05	4.6073E-05	0.268

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.7791E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.233	8.244	7.998
PT2/PT1	5.279E-02	5.287E-02	5.129E-02
TEMP(DEG R)	2014.2	2039.6	2092.6
TT2/TT1	1.0049	1.0176	1.0440

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 60 FRAME 26 TO 52 CONSTANT SET1541

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1023E 07		149.49	1980.10	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.307	1979.046	0.155	0.210	702.242	-0.287	17.6110
0.070	149.307	1979.177	0.155	0.223	703.196	-0.300	17.6110
0.140	149.490	1979.833	0.155	0.324	709.101	-0.287	17.6150
0.210	149.490	1979.703	0.168	0.916	715.530	-0.287	17.6110
0.280	149.490	1978.913	0.245	2.303	856.523	-0.287	17.6029
0.350	149.490	1979.572	1.026	3.838	1343.461	-0.274	17.5908
0.420	149.490	1979.440	3.008	5.297	1718.962	-0.313	17.6110
0.490	149.490	1979.965	5.126	6.743	1859.656	-0.313	17.6110
0.560	149.490	1980.096	6.383	7.647	1902.597	-0.287	17.6110
0.630	149.490	1979.177	7.217	7.961	1924.594	-0.300	17.6069
0.700	149.490	1979.705	7.763	7.864	1929.247	-0.300	17.7563
0.770	149.490	1979.442	8.011	7.522	1949.139	-0.313	34.8870
0.840	149.490	1980.229	8.041	7.263	1951.785	-0.287	34.9274
0.910	149.490	1980.097	8.003	7.224	1972.244	-0.274	34.9274
0.980	149.490	1979.178	7.961	7.327	1978.167	-0.300	34.9274
1.050	149.307	1979.441	7.935	7.438	1994.583	-0.313	34.9274
1.120	149.490	1979.836	7.935	7.538	1988.680	-0.313	34.9314
1.190	149.490	1980.360	7.921	7.599	1991.304	-0.300	34.9354
1.260	149.490	1980.360	7.919	7.655	2007.022	-0.287	34.9274
1.330	149.490	1979.572	7.924	7.688	2005.060	-0.300	34.9274
1.400	149.307	1979.705	7.935	7.730	2018.124	-0.313	34.9274
1.470	149.490	1979.968	7.953	7.764	2012.903	-0.300	34.9395
1.540	149.490	1980.360	7.943	7.791	2008.329	-0.300	34.9354
1.610	149.490	1981.019	7.932	7.819	2012.903	-0.287	34.9274
1.680	149.490	1979.966	7.927	7.855	2021.385	-0.287	34.9274
1.750	149.307	1979.968	7.927	7.883	2017.472	-0.313	34.9314
1.820	149.490	1980.098	7.924	7.905	2019.429	-0.313	34.9354

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.3574E 06	1.0233E 06	0.305	10.17	1100.1	0.11600E 07	0.3048	1.000	RUN NO. 60
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0233E 06	1.000	149.49	1980.1	498.84	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.269	0.2037	0.2037	0.2330	0.2461	39	208	0.273	0.0543	0.0543	0.0622	0.0657
2	2	0.269	0.1871	0.1871	0.2140	0.2260	40	210	0.272	0.0449	0.0449	0.0514	0.0543
3	3	0.269	0.1618	0.1618	0.1851	0.1955	41	211	0.270	0.0380	0.0380	0.0435	0.0459
4	4	0.269	0.1385	0.1385	0.1585	0.1674	42	212	0.270	0.0293	0.0293	0.0335	0.0354
5	5	0.269	0.1142	0.1142	0.1306	0.1379	43	GAP	0.264	-0.0000	-0.0000	-0.0000	-0.0000
6	6	0.269	0.1002	0.1002	0.1146	0.1210	44	214	0.293	-0.0000	-0.0000	-0.0000	-0.0000
7	7	0.269	0.0809	0.0809	0.0925	0.0977	45	215	0.267	-0.0002	-0.0002	-0.0002	-0.0002
8	8	0.269	0.0675	0.0675	0.0772	0.0815	46	306	0.293	0.0000	0.0000	0.0000	0.0000
9	9	0.269	0.0594	0.0594	0.0679	0.0718	47	307	0.270	0.0559	0.0559	0.0639	0.0675
10	10	0.269	0.0537	0.0537	0.0615	0.0649	48	308	0.270	0.0591	0.0591	0.0676	0.0714
11	11	0.269	0.0494	0.0494	0.0565	0.0597	49	309	0.269	0.0548	0.0548	0.0627	0.0663
12	12	0.269	0.0472	0.0472	0.0540	0.0570	50	310	0.269	0.0525	0.0525	0.0601	0.0634
13	13	0.270	0.0432	0.0432	0.0494	0.0522	51	311	0.268	0.0482	0.0482	0.0551	0.0582
14	14	0.270	0.0430	0.0430	0.0492	0.0520	52	312	0.267	0.0360	0.0360	0.0412	0.0435
15	15	0.271	0.0422	0.0422	0.0483	0.0511	53	313	0.267	0.0241	0.0241	0.0275	0.0291
16	16	0.271	0.0437	0.0437	0.0500	0.0528	54	314	0.267	0.0116	0.0116	0.0133	0.0140
17	17	0.272	0.0481	0.0481	0.0551	0.0582	55	315	0.266	0.0044	0.0044	0.0051	0.0053
18	18	0.272	0.0505	0.0505	0.0578	0.0611	56	316	0.266	0.0023	0.0023	0.0026	0.0027
19	19	0.273	0.0528	0.0528	0.0605	0.0639	57	317	0.266	0.0006	0.0006	0.0007	0.0008
20	20	0.274	0.0563	0.0563	0.0645	0.0681	58	318	0.265	0.0001	0.0001	0.0001	0.0001
21	21	0.274	0.0603	0.0603	0.0691	0.0730	59	319	0.265	-0.0003	-0.0003	-0.0004	-0.0004
22	22	0.274	0.0621	0.0621	0.0711	0.0752	60	320	0.265	-0.0006	-0.0006	-0.0007	-0.0007
23	23	0.274	0.0636	0.0636	0.0728	0.0770	61	506	0.269	0.1162	0.1162	0.1329	0.1403
24	24	0.275	0.0675	0.0675	0.0773	0.0816	62	507	0.268	0.1185	0.1185	0.1355	0.1431
25	25	0.274	0.0683	0.0683	0.0782	0.0826	63	508	0.268	0.1236	0.1236	0.1414	0.1493
26	103	0.277	0.0669	0.0669	0.0766	0.0810	64	509	0.267	0.1114	0.1114	0.1274	0.1345
27	105	0.278	0.0650	0.0650	0.0745	0.0787	65	510	0.267	0.1010	0.1010	0.1155	0.1220
28	107	0.277	0.0700	0.0700	0.0802	0.0848	66	511	0.267	0.0967	0.0967	0.1106	0.1168
29	108	0.277	0.0659	0.0659	0.0755	0.0798	67	512	0.267	0.0790	0.0790	0.0903	0.0954
30	110	0.275	0.0538	0.0538	0.0616	0.0651	68	513	0.267	0.0589	0.0589	0.0673	0.0711
31	111	0.275	0.0465	0.0465	0.0533	0.0563	69	514	0.266	0.0241	0.0241	0.0276	0.0292
32	112	0.274	0.0340	0.0340	0.0389	0.0412	70	515	0.265	0.0102	0.0102	0.0117	0.0123
33	113	0.273	0.0225	0.0225	0.0258	0.0273	71	516	0.265	0.0067	0.0067	0.0077	0.0081
34	114	0.272	0.0085	0.0085	0.0097	0.0103	72	517	0.265	0.0036	0.0036	0.0041	0.0043
35	115	0.270	0.0026	0.0026	0.0030	0.0031	73	518	0.265	0.0031	0.0031	0.0035	0.0037
36	203	0.273	0.0518	0.0518	0.0593	0.0627	74	519	0.265	0.0016	0.0016	0.0019	0.0020
37	204	0.274	0.0535	0.0535	0.0612	0.0647	75	520	0.264	-0.0009	-0.0009	-0.0010	-0.0011
38	207	0.273	0.0555	0.0555	0.0636	0.0672							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10	RE/METER 3.3574E 06	REL 1.0233E 06	LENGTH(METER) 0.305	PT(ATM) 10.17	TT(DEG K) 1100.1	HT(JOULE/KG) 0.11600E 07	RS(METER) 0.3048	HAW/HT 1.000	TEST NO. 162
MACH 5.10	RE/FT 1.0233E 06	REL 1.0233E 06	LENGTH(FT) 1.000	PT(PSI) 149.49	TT(DEG R) 1980.1	HT(BTU/LBM) 498.84	RS(FT) 1.0000	HAW/HT 1.000	RUN NO. 60

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	310.3	558.5	2.394	2.109	11.751	10.354	7.6472E-04	8.0767E-04	0.412
2	2	310.6	559.1	2.197	1.936	11.746	10.350	7.0220E-04	7.4166E-04	0.386
3	3	310.5	558.9	1.901	1.675	11.748	10.351	6.0734E-04	6.4147E-04	0.355
4	4	310.4	558.6	1.628	1.434	11.750	10.353	5.2003E-04	5.4924E-04	0.290
5	5	310.4	558.7	1.341	1.182	11.749	10.353	4.2849E-04	4.5256E-04	0.212
6	6	310.3	558.5	1.177	1.037	11.751	10.354	3.7594E-04	3.9706E-04	0.165
7	7	310.3	558.6	0.951	0.838	11.750	10.354	3.0364E-04	3.2070E-04	0.084
8	8	310.4	558.7	0.793	0.699	11.749	10.353	2.5328E-04	2.6751E-04	0.017
9	9	310.4	558.8	0.698	0.615	11.749	10.353	2.2295E-04	2.3548E-04	-0.018
10	10	310.5	559.0	0.631	0.556	11.747	10.351	2.0171E-04	2.1305E-04	-0.066
11	11	310.8	559.4	0.580	0.511	11.744	10.348	1.8546E-04	1.9589E-04	-0.078
12	12	311.1	560.0	0.554	0.488	11.739	10.344	1.7708E-04	1.8704E-04	-0.107
13	13	311.7	561.1	0.506	0.446	11.730	10.336	1.6201E-04	1.7112E-04	-0.161
14	14	312.2	562.0	0.504	0.444	11.722	10.329	1.6137E-04	1.7045E-04	-0.195
15	15	312.6	562.6	0.495	0.436	11.717	10.325	1.5859E-04	1.6753E-04	-0.160
16	16	313.1	563.6	0.511	0.451	11.710	10.318	1.6397E-04	1.7321E-04	-0.140
17	17	313.7	564.7	0.563	0.496	11.701	10.310	1.8070E-04	1.9090E-04	-0.082
18	18	314.6	566.3	0.590	0.520	11.687	10.298	1.8966E-04	2.0038E-04	-0.050
19	19	315.4	567.8	0.617	0.543	11.675	10.287	1.9833E-04	2.0955E-04	-0.011
20	20	316.0	568.8	0.657	0.579	11.667	10.280	2.1142E-04	2.2339E-04	0.030
21	21	316.5	569.6	0.703	0.620	11.660	10.274	2.2649E-04	2.3932E-04	0.047
22	22	316.7	570.0	0.724	0.638	11.657	10.271	2.3336E-04	2.4658E-04	0.046
23	23	316.9	570.5	0.741	0.653	11.653	10.268	2.3889E-04	2.5244E-04	0.048
24	24	317.2	571.0	0.786	0.692	11.648	10.264	2.5337E-04	2.6774E-04	0.061
25	25	316.5	569.8	0.796	0.701	11.659	10.273	2.5642E-04	2.7095E-04	0.065
26	103	319.9	575.8	0.777	0.684	11.609	10.229	2.5131E-04	2.6562E-04	0.060
27	105	321.0	577.7	0.753	0.664	11.593	10.215	2.4412E-04	2.5804E-04	0.028
28	107	320.5	576.8	0.812	0.716	11.601	10.222	2.6307E-04	2.7806E-04	0.016
29	108	319.4	575.0	0.766	0.675	11.616	10.235	2.4765E-04	2.6174E-04	-0.265
30	110	318.1	572.6	0.626	0.552	11.635	10.252	2.0210E-04	2.1357E-04	-0.473
31	111	317.5	571.5	0.542	0.477	11.645	10.260	1.7469E-04	1.8461E-04	-0.372
32	112	316.2	569.2	0.397	0.350	11.663	10.277	1.2775E-04	1.3498E-04	-0.127
33	113	315.4	567.7	0.263	0.232	11.676	10.288	8.4637E-05	8.9425E-05	-0.003
34	114	315.7	564.7	0.099	0.088	11.700	10.309	3.1878E-05	3.3678E-05	-0.396
35	115	312.3	562.2	0.030	0.027	11.721	10.326	9.6823E-06	1.0229E-05	-2.123
36	203	315.2	567.4	0.603	0.533	11.678	10.290	1.9451E-04	2.0551E-04	-0.068
37	205	315.9	568.7	0.624	0.550	11.667	10.281	2.0089E-04	2.1227E-04	-0.030
38	207	315.8	568.5	0.648	0.571	11.669	10.282	2.0850E-04	2.2030E-04	0.004
39	208	315.2	567.3	0.634	0.559	11.678	10.290	2.0403E-04	2.1557E-04	-0.153
40	210	314.2	565.5	0.525	0.462	11.693	10.303	1.6853E-04	1.7804E-04	-0.390
41	211	312.2	562.0	0.445	0.392	11.723	10.329	1.4264E-04	1.5067E-04	-0.304
42	212	311.7	561.1	0.344	0.303	11.730	10.336	1.1002E-04	1.1621E-04	-0.032
43	GAP	309.2	549.4	-0.000	-0.000	11.826	10.420	-0.0000E-39	-0.0000E-39	2.385
44	214	338.7	609.6	-0.000	-0.000	11.332	9.985	-3.9210E-11	-4.1611E-11	*******
45	215	338.9	590.0	-0.002	-0.002	11.772	10.372	-6.0671E-07	-6.4072E-07	15.541
46	306	338.7	609.7	0.000	0.000	11.331	9.984	5.0811E-08	5.3785E-08	1.806
47	307	311.8	561.3	0.555	0.578	11.728	10.334	2.0982E-04	2.2163E-04	-0.038
48	308	311.3	560.4	0.594	0.611	11.735	10.340	2.2189E-04	2.3438E-04	-0.216
49	309	310.8	559.4	0.544	0.568	11.744	10.348	2.0588E-04	2.1745E-04	-0.426
50	310	310.4	558.7	0.517	0.544	11.749	10.353	1.9713E-04	2.0820E-04	-0.392
51	311	309.8	557.6	0.367	0.499	11.759	10.361	1.8090E-04	1.9105E-04	-0.271
52	312	308.7	555.7	0.424	0.374	11.774	10.374	1.3520E-04	1.4278E-04	0.102
53	313	307.4	554.2	0.294	0.259	11.787	10.386	9.0317E-05	9.5372E-05	0.200
54	314	308.2	554.8	0.137	0.121	11.781	10.381	4.3616E-05	4.6059E-05	0.267
55	315	307.7	553.8	0.052	0.046	11.789	10.388	1.6601E-05	1.7530E-05	-0.212
56	316	307.2	553.0	0.027	0.023	11.796	10.394	8.4676E-06	8.9411E-06	-0.282
57	317	306.7	552.1	0.008	0.007	11.804	10.401	2.4222E-06	2.5576E-06	-1.740
58	318	306.6	551.9	0.001	0.001	11.805	10.402	3.0600E-07	3.2310E-07	-14.194
59	319	306.4	551.5	-0.004	-0.003	11.809	10.405	-1.2234E-06	-1.2917E-06	1.771
60	320	306.3	551.4	-0.007	-0.006	11.810	10.406	-2.1662E-06	-2.2872E-06	0.877
61	506	310.2	558.4	1.369	1.203	11.752	10.355	4.3606E-04	4.6055E-04	0.190
62	507	309.9	557.9	1.293	1.227	11.756	10.359	4.4461E-04	4.6957E-04	0.203
63	508	309.2	556.6	1.455	1.282	11.767	10.368	4.6404E-04	4.9006E-04	0.124
64	509	308.3	555.0	1.312	1.156	11.780	10.380	4.1808E-04	4.4150E-04	-0.108
65	510	308.7	555.7	1.189	1.048	11.774	10.375	3.7910E-04	4.0035E-04	-0.165
66	511	308.7	555.6	1.138	1.003	11.775	10.376	3.6286E-04	3.8319E-04	-0.127
67	512	308.4	555.1	0.931	0.820	11.779	10.379	2.9648E-04	3.1309E-04	0.156
68	513	308.2	554.7	0.694	0.611	11.783	10.382	2.2091E-04	2.3328E-04	0.350
69	514	307.9	553.3	0.285	0.251	11.794	10.392	9.0609E-05	9.5677E-05	0.302
70	515	306.6	552.0	0.120	0.106	11.805	10.402	3.8246E-05	4.0383E-05	-0.037
71	516	306.6	551.9	0.079	0.070	11.805	10.402	2.5204E-05	2.6612E-05	0.014
72	517	306.4	551.5	0.042	0.037	11.809	10.405	1.3406E-05	1.4155E-05	-0.372
73	518	306.7	552.1	0.036	0.032	11.805	10.411	1.1488E-05	1.2124E-05	-0.085
74	519	306.7	552.1	0.019	0.017	11.819	10.414	6.1063E-06	6.4471E-06	-0.391
75	520	306.7	552.1	-0.010	-0.009	11.827	10.421	-3.3293E-06	-3.5149E-06	2.965

FREE-STREAM VISCOSITY-VELOCITY PRODUCT = 1.6882E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.125	7.624	7.905
PT2/PT1	5.435E-02	5.301E-02	5.288E-02
TEMP(DEG R)	2021.4	2019.4	2082.9
TT2/TT1	1.0209	1.0199	1.0519

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 61 FRAME 26 TO 51 CONSTANT SET1541

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1021E 07	149.33	1981.42	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PUS
0.000	149.517	1979.316	0.162	0.217	693.627	-0.280	17.6052
0.070	149.517	1979.579	0.154	0.231	694.587	-0.306	17.6052
0.140	149.517	1979.972	0.162	0.328	696.505	-0.293	17.6132
0.210	149.517	1981.025	0.167	0.909	706.053	-0.306	17.6132
0.280	149.517	1979.841	0.242	2.299	809.518	-0.293	17.6011
0.350	149.517	1979.710	0.959	3.854	1322.911	-0.280	17.6052
0.420	149.517	1980.104	2.892	5.185	1710.653	-0.319	17.6052
0.490	149.517	1980.103	5.023	6.553	1862.350	-0.293	17.6132
0.560	149.517	1980.890	6.275	7.485	1905.936	-0.306	17.6092
0.630	149.517	1979.972	7.062	7.821	1926.588	-0.293	17.6052
0.700	149.517	1979.971	7.662	7.749	1927.253	-0.293	17.6092
0.770	149.517	1979.447	7.864	7.387	1945.167	-0.306	34.7786
0.840	149.517	1980.233	7.909	7.054	1959.055	-0.293	34.9238
0.910	149.334	1981.418	7.898	6.959	1974.877	-0.306	34.9319
0.980	149.517	1980.365	7.864	7.009	1967.632	-0.293	34.9198
1.050	149.517	1979.971	7.816	7.101	1968.950	-0.293	34.9279
1.120	149.517	1980.234	7.790	7.221	1980.798	-0.319	34.9279
1.190	149.517	1980.365	7.793	7.315	1986.711	-0.306	34.9319
1.260	149.517	1981.418	7.804	7.385	1994.583	-0.306	34.9319
1.330	149.334	1980.627	7.830	7.415	1997.204	-0.306	34.9198
1.400	149.517	1980.234	7.830	7.429	1991.960	-0.306	34.9279
1.470	149.517	1980.234	7.830	7.451	1991.960	-0.319	34.9279
1.540	149.517	1981.024	7.822	7.471	1995.239	-0.306	34.9279
1.610	149.517	1981.418	7.830	7.499	2005.714	-0.306	34.9319
1.680	149.517	1981.024	7.848	7.535	2010.943	-0.293	34.9198
1.750	149.517	1980.233	7.848	7.546	2024.643	-0.319	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.3501E 06	1.0211E 06	0.305	10.16	1100.8	0.11609E 07	0.3048	1.000	RUN NO. 61
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0211E 06	1.000	149.33	1981.4	499.20	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.269	0.1789	0.1789	0.2047	0.2162	39	208	0.275	0.0524	0.0524	0.0600	0.0634
2	2	0.269	0.1683	0.1683	0.1925	0.2033	40	210	0.274	0.0414	0.0414	0.0474	0.0501
3	3	0.269	0.1514	0.1514	0.1732	0.1829	41	211	0.272	0.0337	0.0337	0.0386	0.0407
4	4	0.269	0.1369	0.1369	0.1566	0.1654	42	212	0.272	0.0254	0.0254	0.0290	0.0307
5	5	0.269	0.1129	0.1129	0.1292	0.1364	43	GAP	0.265	-0.0000	-0.0000	0.0000	-0.0000
6	6	0.269	0.0986	0.0986	0.1128	0.1191	44	214	0.293	0.0000	0.0000	0.0000	0.0000
7	7	0.269	0.0807	0.0807	0.0923	0.0975	45	215	0.270	-0.0003	-0.0003	0.0003	-0.0004
8	8	0.270	0.0667	0.0667	0.0763	0.0806	46	306	0.293	0.0000	0.0000	0.0000	0.0000
9	9	0.270	0.0597	0.0597	0.0683	0.0721	47	307	0.272	0.0546	0.0546	0.0625	0.0660
10	10	0.270	0.0562	0.0562	0.0642	0.0679	48	308	0.272	0.0506	0.0506	0.0579	0.0612
11	11	0.270	0.0526	0.0526	0.0602	0.0636	49	309	0.271	0.0421	0.0421	0.0482	0.0509
12	12	0.271	0.0515	0.0515	0.0589	0.0622	50	310	0.271	0.0385	0.0385	0.0441	0.0466
13	13	0.271	0.0489	0.0489	0.0560	0.0592	51	311	0.271	0.0328	0.0328	0.0376	0.0397
14	14	0.272	0.0486	0.0486	0.0556	0.0587	52	312	0.270	0.0194	0.0194	0.0222	0.0235
15	15	0.272	0.0470	0.0470	0.0538	0.0569	53	313	0.268	0.0108	0.0108	0.0124	0.0131
16	16	0.273	0.0475	0.0475	0.0544	0.0575	54	314	0.269	0.0033	0.0033	0.0037	0.0040
17	17	0.273	0.0489	0.0489	0.0560	0.0591	55	315	0.268	0.0002	0.0002	0.0003	0.0003
18	18	0.274	0.0507	0.0507	0.0581	0.0614	56	316	0.268	-0.0001	-0.0001	0.0001	-0.0001
19	19	0.274	0.0519	0.0519	0.0595	0.0629	57	317	0.268	-0.0003	-0.0003	0.0003	-0.0003
20	20	0.274	0.0529	0.0529	0.0606	0.0640	58	318	0.267	-0.0004	-0.0004	0.0005	-0.0005
21	21	0.275	0.0556	0.0556	0.0637	0.0673	59	319	0.267	0.0002	0.0002	0.0002	0.0002
22	22	0.275	0.0573	0.0573	0.0657	0.0694	60	320	0.267	-0.0007	-0.0007	0.0008	-0.0008
23	23	0.275	0.0582	0.0582	0.0667	0.0705	61	506	0.270	0.1061	0.1061	0.1214	0.1283
24	24	0.275	0.0623	0.0623	0.0713	0.0754	62	507	0.270	0.1099	0.1099	0.1257	0.1328
25	25	0.274	0.0646	0.0646	0.0739	0.0781	63	508	0.269	0.1135	0.1135	0.1299	0.1372
26	103	0.278	0.0590	0.0590	0.0677	0.0715	64	509	0.269	0.1019	0.1019	0.1166	0.1232
27	105	0.279	0.0566	0.0566	0.0649	0.0686	65	510	0.265	0.0933	0.0933	0.1067	0.1127
28	107	0.278	0.0589	0.0589	0.0675	0.0714	66	511	0.268	0.0860	0.0860	0.0984	0.1039
29	108	0.277	0.0545	0.0545	0.0624	0.0660	67	512	0.268	0.0641	0.0641	0.0733	0.0774
30	110	0.276	0.0443	0.0443	0.0508	0.0537	68	513	0.268	0.0430	0.0430	0.0492	0.0519
31	111	0.275	0.0373	0.0373	0.0428	0.0452	69	514	0.267	0.0133	0.0133	0.0153	0.0161
32	112	0.274	0.0262	0.0262	0.0300	0.0318	70	515	0.266	0.0037	0.0037	0.0042	0.0045
33	113	0.274	0.0160	0.0160	0.0184	0.0194	71	516	0.266	0.0023	0.0023	0.0026	0.0028
34	114	0.272	0.0047	0.0047	0.0054	0.0057	72	517	0.266	0.0006	0.0006	0.0006	0.0007
35	115	0.271	0.0012	0.0012	0.0014	0.0015	73	518	0.266	-0.0010	-0.0010	0.0011	-0.0012
36	203	0.275	0.0557	0.0557	0.0638	0.0674	74	519	0.266	-0.0000	-0.0000	0.0000	-0.0000
37	205	0.276	0.0554	0.0554	0.0635	0.0671	75	520	0.266	0.0011	0.0011	0.0013	0.0014
38	207	0.275	0.0559	0.0559	0.0640	0.0676							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.3501E 06	1.0211E 06	0.305	10.16	1100.8	0.11609E 07	0.3048	1.000	RUN NO.	61
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0211E 06	1.0211E 06	1.000	149.33	1981.4	499.20	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	QW(W/CM2)	QW(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	310.6	559.1	2.102	1.853	11.751	10.355	6.7223E-04	7.0999E-04	0.366
2	2	310.9	559.6	1.977	1.742	11.748	10.351	6.3236E-04	6.6789E-04	0.363
3	3	311.0	559.7	1.778	1.567	11.747	10.350	5.6885E-04	6.0082E-04	0.359
4	4	311.0	559.7	1.608	1.417	11.747	10.350	5.1446E-04	5.4340E-04	0.315
5	5	311.1	560.0	1.326	1.168	11.744	10.348	4.2422E-04	4.4806E-04	0.233
6	6	311.1	560.0	1.156	1.020	11.744	10.348	3.7039E-04	3.9121E-04	0.187
7	7	311.4	560.4	0.947	0.835	11.741	10.345	3.0315E-04	3.2020E-04	0.119
8	8	311.5	560.8	0.783	0.690	11.738	10.343	2.5069E-04	2.6479E-04	0.053
9	9	311.7	561.0	0.701	0.617	11.736	10.341	2.2431E-04	2.3693E-04	0.017
10	10	312.0	561.6	0.659	0.580	11.731	10.337	2.1102E-04	2.2289E-04	-0.010
11	11	312.4	562.3	0.617	0.544	11.726	10.332	1.9783E-04	2.0897E-04	-0.025
12	12	312.[illegible]	563.1	0.603	0.532	11.719	10.326	1.9349E-04	2.0440E-04	-0.054
13	13	313.6	564.5	0.573	0.505	11.707	10.316	1.8389E-04	1.9426E-04	-0.064
14	14	314.3	565.7	0.568	0.501	11.698	10.307	1.8258E-04	1.9289E-04	-0.115
15	15	314.7	566.5	0.550	0.484	11.691	10.302	1.7675E-04	1.8674E-04	-0.104
16	16	315.3	567.5	0.555	0.489	11.683	10.294	1.7867E-04	1.8877E-04	-0.078
17	17	315.8	568.4	0.571	0.503	11.675	10.288	1.8377E-04	1.9417E-04	-0.079
18	18	316.5	569.7	0.592	0.521	11.665	10.278	1.9065E-04	2.0145E-04	-0.053
19	19	317.0	570.7	0.605	0.534	11.657	10.271	1.9529E-04	2.0636E-04	-0.041
20	20	317.2	571.0	0.616	0.543	11.654	10.269	1.9880E-04	2.1007E-04	-0.037
21	21	317.4	571.4	0.648	0.571	11.651	10.266	2.0915E-04	2.2102E-04	-0.023
22	22	317.4	571.4	0.658	0.589	11.651	10.266	2.1558E-04	2.2781E-04	-0.014
23	23	317.5	571.5	0.678	0.598	11.650	10.265	2.1887E-04	2.3129E-04	-0.019
24	24	317.6	571.7	0.726	0.639	11.648	10.264	2.3423E-04	2.4752E-04	-0.007
25	25	317.0	570.7	0.753	0.663	11.657	10.271	2.4275E-04	2.5651E-04	-0.001
26	103	321.3	578.3	0.684	0.603	11.594	10.216	2.2204E-04	2.3470E-04	-0.012
27	105	322.1	579.7	0.655	0.577	11.583	10.206	2.1284E-04	2.2499E-04	-0.041
28	107	321.3	578.4	0.683	0.602	11.593	10.215	2.2162E-04	2.3427E-04	-0.026
29	108	320.3	576.5	0.632	0.557	11.609	10.229	2.0486E-04	2.1653E-04	-0.219
30	110	318.9	574.1	0.516	0.454	11.629	10.247	1.6677E-04	1.7626E-04	-0.221
31	111	318.3	572.9	0.435	0.383	11.638	10.255	1.4040E-04	1.4838E-04	-0.073
32	112	317.1	570.7	0.306	0.270	11.656	10.271	9.8655E-05	1.0425E-04	0.260
33	113	316.3	569.3	0.187	0.165	11.668	10.281	6.0251E-05	6.3663E-05	0.487
34	114	314.9	566.7	0.055	0.048	11.689	10.300	1.7675E-05	1.8674E-05	0.594
35	115	313.7	564.7	0.014	0.013	11.706	10.315	4.5674E-06	4.8251E-06	0.376
36	203	318.1	572.6	0.648	0.571	11.641	10.257	2.0928E-04	2.2117E-04	-0.013
37	205	318.7	573.6	0.644	0.568	11.632	10.250	2.0832E-04	2.2016E-04	-0.013
38	207	318.4	573.1	0.650	0.573	11.637	10.254	2.1004E-04	2.2197E-04	-0.015
39	208	317.7	571.9	0.611	0.538	11.646	10.262	1.9711E-04	2.0830E-04	-0.181
40	210	316.7	570.0	0.483	0.425	11.662	10.276	1.5560E-04	1.6442E-04	-0.340
41	211	314.6	566.3	0.394	0.347	11.692	10.303	1.2661E-04	1.3376E-04	-0.208
42	212	314.2	565.6	0.297	0.261	11.699	10.308	9.5283E-05	1.0066E-04	0.108
43	GAP	306.4	551.5	-0.000	-0.000	11.814	10.410	-0.0000E-39	-0.0000E-39	0.497
44	214	338.7	609.6	0.000	0.000	11.338	9.990	1.0550E-07	1.1147E-07	1.761
45	215	311.7	561.1	-0.003	-0.003	11.736	10.341	-1.1149E-06	-1.1776E-06	1.771
46	306	338.7	609.7	0.000	0.000	11.337	9.989	5.0838E-08	5.3713E-08	1.389
47	307	314.5	566.1	0.639	0.563	11.695	10.304	2.0527E-04	2.1686E-04	-0.021
48	308	314.0	565.1	0.592	0.522	11.702	10.311	1.9015E-04	2.0089E-04	-0.215
49	309	313.4	564.1	0.493	0.435	11.711	10.319	1.5837E-04	1.6730E-04	-0.377
50	310	313.1	563.6	0.451	0.398	11.715	10.322	1.4484E-04	1.5300E-04	-0.301
51	311	312.7	562.8	0.385	0.339	11.721	10.328	1.2334E-04	1.3029E-04	-0.101
52	312	311.8	561.2	0.226	0.201	11.735	10.340	7.3012E-05	7.7121E-05	0.214
53	313	310.2	558.4	0.128	0.112	11.758	10.360	4.0747E-05	4.3035E-05	0.542
54	314	310.5	559.0	0.038	0.034	11.753	10.356	1.2306E-05	1.2997E-05	0.916
55	315	310.1	558.2	0.003	0.002	11.759	10.361	8.3475E-07	8.8161E-07	3.248
56	316	309.7	557.5	-0.001	-0.001	11.765	10.367	-2.8100E-07	-2.9677E-07	-10.641
57	317	309.3	556.7	-0.003	-0.003	11.771	10.372	-1.0470E-06	-1.1057E-06	-1.479
58	318	309.2	556.5	-0.005	-0.004	11.773	10.371	-1.5835E-06	-1.6723E-06	0.292
59	319	309.0	556.2	0.002	0.002	11.776	10.376	6.1259E-07	6.4692E-07	3.908
60	320	309.0	556.3	-0.008	-0.007	11.775	10.376	-2.6302E-06	-2.7776E-06	0.243
61	506	312.0	561.6	1.245	1.097	11.731	10.337	3.9884E-04	4.2129E-04	0.201
62	507	311.7	561.0	1.289	1.136	11.736	10.341	4.1280E-04	4.3603E-04	0.212
63	508	311.2	560.2	1.333	1.174	11.743	10.347	4.2652E-04	4.5050E-04	0.151
64	509	310.7	559.3	1.198	1.055	11.750	10.353	3.8304E-04	4.0456E-04	0.002
65	510	310.0	558.0	1.097	0.967	11.761	10.363	3.5050E-04	3.7017E-04	0.327
66	511	310.0	557.9	1.012	0.891	11.761	10.363	3.2313E-04	3.4127E-04	0.061
67	512	309.6	557.3	0.754	0.664	11.766	10.368	2.4066E-04	2.5416E-04	0.347
68	513	309.3	556.8	0.506	0.446	11.771	10.372	1.6146E-04	1.7052E-04	0.512
69	514	308.6	555.5	0.157	0.139	11.782	10.381	5.0143E-05	5.2951E-05	0.627
70	515	307.8	554.0	0.044	0.039	11.794	10.392	1.3927E-05	1.4706E-05	0.798
71	516	307.7	553.8	0.027	0.024	11.795	10.393	8.6434E-06	9.1269E-06	0.994
72	517	307.5	553.5	0.007	0.006	11.798	10.396	2.1221E-06	2.2408E-06	0.567
73	518	307.2	552.9	-0.012	-0.010	11.803	10.400	-3.7645E-06	-3.9749E-06	1.206
74	519	307.1	552.8	-0.000	-0.000	11.804	10.401	-1.2620E-07	-1.3325E-07	-22.708
75	520	306.9	552.4	0.013	0.012	11.807	10.403	4.2189E-06	4.4542E-06	2.083

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6841E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.751	7.848	7.546
PT2/PT1	5.190E-02	5.255E-02	5.053E-02
TEMP(DEG R)	2008.3	2024.6	2062.3
TT2/TT1	1.0136	1.0218	1.0408

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 62 FRAME 26 TO 51 CONSTANT SET1541

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	C 0 8 1	5.10	0.1010E 07		149.52	1995.47	1.0000

T(SEC)	PT(PSIA)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.517	1994.294	0.155	0.202	699.377	-0.280	17.5971
0.070	149.517	1994.557	0.153	0.216	700.333	-0.306	17.6052
0.140	149.517	1994.687	0.153	0.277	702.242	-0.293	17.6092
0.210	149.517	1995.340	0.155	0.739	708.903	-0.293	17.6132
0.280	149.517	1995.079	0.206	2.003	789.059	-0.280	17.6052
0.350	149.517	1994.687	0.772	3.636	1219.066	-0.267	17.6052
0.420	149.517	1994.687	2.472	4.933	1654.257	-0.306	17.6011
0.490	149.517	1994.949	4.663	6.315	1854.937	-0.306	17.6092
0.560	149.334	1995.471	6.082	7.338	1915.274	-0.306	17.6052
0.630	149.517	1995.210	6.887	7.807	1935.223	-0.293	17.6011
0.700	149.517	1994.687	7.475	7.844	1947.154	-0.293	17.5971
0.770	149.517	1994.687	7.845	7.538	1971.585	-0.306	34.9238
0.840	149.517	1994.556	7.991	7.176	1982.112	-0.306	34.9279
0.910	149.517	1995.471	8.004	7.037	1999.824	-0.319	34.9319
0.980	149.517	1995.472	7.951	7.093	1990.648	-0.293	34.9238
1.050	149.517	1994.687	7.911	7.176	2018.124	-0.306	34.9238
1.120	149.517	1994.949	7.888	7.260	2007.022	-0.306	34.9238
1.190	149.517	1994.949	7.880	7.354	2025.946	-0.319	34.9319
1.260	149.517	1995.733	7.885	7.421	2014.861	-0.319	34.9319
1.330	149.517	1995.472	7.898	7.482	2030.502	-0.293	34.9238
1.400	149.517	1994.969	7.935	7.546	2039.603	-0.293	34.9238
1.470	149.517	1994.949	7.946	7.582	2038.304	-0.306	34.9238
1.540	149.517	1995.211	7.946	7.585	2020.733	-0.319	34.9319
1.610	149.517	1995.733	7.925	7.602	2039.603	-0.319	34.9319
1.680	149.517	1995.603	7.922	7.616	2038.304	-0.293	34.9238
1.750	149.517	1995.080	7.925	7.632	2045.444	-0.293	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.3146E C6	1.0103E 06	0.305	10.17	1108.6	0.11699E 07	0.3048	1.000	RUN NO. 62
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0103E C6	1.0103E C6	1.000	149.52	1995.5	5C3.08	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.267	C.1964	0.1964	0.2246	C.2371	39	208	0.271	0.0550	0.0550	0.0629	0.0664
2	2	0.267	C.1805	0.1805	0.2064	C.2180	40	210	0.270	0.0432	0.0432	0.0494	0.0522
3	3	0.267	0.1557	0.1557	0.1780	0.1880	41	211	0.268	0.0359	0.0359	0.0411	0.0434
4	4	0.267	0.1416	0.1416	0.1619	0.1709	42	212	0.268	0.0259	0.0259	0.0296	0.0313
5	5	0.267	C.1259	0.1259	0.1440	0.1520	43	GAP	0.263	-0.0000	-0.0000	-0.0000	-0.0000
6	6	0.267	0.1156	0.1156	0.1322	0.1396	44	214	0.291	0.0000	0.0000	0.0001	0.0001
7	7	0.267	0.0942	0.0942	0.1077	0.1138	45	215	0.266	0.0004	0.0004	0.0005	0.0005
8	8	0.267	0.0755	0.0755	0.0863	C.0912	46	306	0.291	0.0000	0.0000	0.0001	0.0001
9	9	0.267	C.0657	0.0657	0.0751	C.0793	47	307	0.269	0.0534	0.0534	0.0610	0.0645
10	10	0.267	0.0599	0.0599	0.0685	0.0724	48	308	0.269	0.0518	0.0518	0.0593	0.0626
11	11	0.268	C.0535	0.0535	0.0611	C.0646	49	309	0.268	0.0455	0.0455	0.0521	0.0550
12	12	0.268	C.0505	0.0505	0.0577	0.0610	50	310	0.268	0.0426	0.0426	0.0487	0.0514
13	13	0.268	0.0468	0.0468	0.0535	0.0565	51	311	0.267	0.0366	0.0366	0.0419	0.0442
14	14	0.269	0.0466	0.0466	0.0533	0.0563	52	312	0.266	0.0225	0.0225	0.0257	0.0271
15	15	0.269	0.0448	0.0448	0.0513	0.0542	53	313	0.265	0.0133	0.0133	0.0152	0.0160
16	16	0.269	C.0469	0.0469	0.0536	0.0567	54	314	0.266	0.0032	0.0032	0.0037	0.0039
17	17	0.270	0.0512	0.0512	0.0585	0.0618	55	315	0.265	0.0004	0.0004	0.0005	0.0005
18	18	0.270	0.0543	0.0543	0.0621	0.0656	56	316	0.265	-0.0002	-0.0002	-0.0003	-0.0003
19	19	0.271	C.0566	0.0566	0.0648	C.0685	57	317	0.264	-0.0005	-0.0005	-0.0005	-0.0006
20	20	0.271	0.0585	0.0585	0.0669	0.0707	58	318	0.264	-0.0001	-0.0001	-0.0001	-0.0001
21	21	0.271	C.0619	0.0619	0.0703	0.0748	59	319	0.264	-0.0004	-0.0004	-0.0004	-0.0004
22	22	0.271	0.0643	0.0643	0.0736	C.0777	60	320	0.264	-0.0000	-0.0000	-0.0000	-0.0000
23	23	0.271	C.0663	0.0663	0.0759	C.0802	61	506	0.267	0.1265	0.1265	0.1446	0.1528
24	24	0.271	0.0715	0.0715	0.0819	0.0865	62	507	0.267	0.1259	0.1259	0.1440	0.1520
25	25	0.271	0.0740	0.0740	0.0847	0.0895	63	508	0.266	0.1254	0.1254	0.1434	0.1514
26	103	0.275	C.0690	0.0690	0.0790	C.0835	64	509	0.266	0.1134	0.1134	0.1297	0.1369
27	105	0.276	C.0677	0.0677	0.0775	C.0819	65	510	0.265	0.1009	0.1009	0.1154	0.1218
28	107	0.275	C.0653	C.0653	0.0747	0.0790	66	511	0.265	0.0944	0.0944	0.1079	0.1139
29	108	0.274	0.0604	0.0604	0.0692	0.0731	67	512	0.265	C.0678	0.0678	0.0775	0.0818
30	110	0.273	C.0486	0.0486	0.0556	C.0588	68	513	0.265	0.0451	0.0451	0.0516	0.0545
31	111	0.272	C.0401	C.0401	0.0459	0.0484	69	514	0.265	0.0147	0.0147	0.0168	0.0177
32	112	0.271	C.0269	C.0269	0.0308	0.0326	70	515	0.264	0.0040	0.0040	0.0045	0.0048
33	113	0.270	0.0158	0.0158	0.0180	0.0191	71	516	0.264	C.0017	0.0017	0.0019	0.0020
34	114	0.269	C.0043	0.0043	0.0049	C.0052	72	517	0.264	-0.0032	-0.0032	-0.0036	-0.0038
35	115	0.268	0.0008	C.CC08	0.0009	0.0010	73	518	0.263	-0.0018	-0.0018	-0.0021	-0.0022
36	203	C.272	0.0539	0.0539	0.0617	0.0652	74	519	0.263	-0.0003	-0.0003	-0.0004	-0.0004
37	205	0.272	0.0572	0.0572	0.0655	C.0692	75	520	0.263	-0.0017	-0.0017	-0.0019	-0.0021
38	207	0.272	C.0584	0.0584	0.0668	C.0706							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.3146E C6	1.0103E 06	0.305	10.17	1100.6	0.11699E 07	0.3048	1.000	RUN NO. 62
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.0103E C6	1.0103E 06	1.000	149.52	1999.5	503.08	1.0000	1.000

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	310.6	559.1	2.334	2.056	11.884	10.471	7.4103E-04	7.8252E-04	0.000
2	2	310.9	559.6	2.145	1.890	11.880	10.468	6.8124E-04	7.1939E-04	0.417
3	3	310.9	559.6	1.849	1.629	11.879	10.467	5.8738E-04	6.2028E-04	0.347
4	4	310.8	559.5	1.682	1.482	11.880	10.468	5.3412E-04	5.6402E-04	0.365
5	5	311.0	559.7	1.495	1.318	11.878	10.466	4.7504E-04	5.0165E-04	0.331
6	6	310.8	559.5	1.373	1.210	11.880	10.468	4.3611E-04	4.6053E-04	0.309
7	7	311.0	559.8	1.119	0.986	11.878	10.466	3.5552E-04	3.7543E-04	0.234
8	8	311.2	560.1	0.896	0.790	11.875	10.464	2.8485E-04	3.0081E-04	0.144
9	9	311.3	560.3	0.779	0.687	11.873	10.462	2.4773E-04	2.6161E-04	0.082
10	10	311.5	560.7	0.711	0.627	11.870	10.459	2.2612E-04	2.3879E-04	0.035
11	11	311.8	561.2	0.634	0.559	11.867	10.456	2.0175E-04	2.1306E-04	-0.027
12	12	312.1	561.8	0.599	0.528	11.861	10.451	1.9048E-04	2.0117E-04	-0.068
13	13	312.7	562.9	0.554	0.488	11.852	10.443	1.7652E-04	1.8643E-04	-0.085
14	14	313.2	563.7	0.552	0.486	11.846	10.438	1.7575E-04	1.8562E-04	-0.106
15	15	313.4	564.1	0.531	0.468	11.843	10.435	1.6925E-04	1.7876E-04	-0.076
16	16	313.8	564.8	0.555	0.489	11.837	10.430	1.7699E-04	1.8694E-04	-0.043
17	17	314.1	565.4	0.605	0.533	11.832	10.425	1.9307E-04	2.0393E-04	0.004
18	18	314.8	566.6	0.642	0.566	11.822	10.417	2.0495E-04	2.1649E-04	0.036
19	19	315.2	567.4	0.669	0.590	11.815	10.411	2.1377E-04	2.2581E-04	0.062
20	20	315.5	568.0	0.691	0.608	11.811	10.407	2.2072E-04	2.3316E-04	0.077
21	21	315.9	568.7	0.730	0.643	11.805	10.401	2.3354E-04	2.4671E-04	0.092
22	22	315.9	568.6	0.759	0.669	11.805	10.402	2.4267E-04	2.5636E-04	0.102
23	23	316.0	568.9	0.783	0.690	11.803	10.400	2.5038E-04	2.6451E-04	0.118
24	24	316.2	569.2	0.844	0.744	11.801	10.398	2.6999E-04	2.8523E-04	0.133
25	25	315.6	568.1	0.874	0.771	11.810	10.406	2.7953E-04	2.9529E-04	0.136
26	103	320.0	576.0	0.810	0.714	11.745	10.349	2.6059E-04	2.7537E-04	0.108
27	105	321.0	577.7	0.794	0.699	11.730	10.336	2.5555E-04	2.7006E-04	0.105
28	107	320.3	576.5	0.766	0.675	11.741	10.345	2.4644E-04	2.6043E-04	0.102
29	108	319.1	574.4	0.711	0.626	11.757	10.360	2.2823E-04	2.4116E-04	-0.031
30	110	317.7	571.8	0.572	0.504	11.779	10.379	1.8350E-04	1.9388E-04	-0.055
31	111	317.0	570.6	0.472	0.416	11.789	10.388	1.5124E-04	1.5978E-04	0.057
32	112	315.7	568.3	0.318	0.280	11.808	10.404	1.0165E-04	1.0738E-04	0.332
33	113	314.9	566.8	0.186	0.164	11.820	10.415	5.9495E-05	6.2845E-05	0.542
34	114	313.4	564.1	0.051	0.045	11.843	10.435	1.6098E-05	1.7003E-05	0.658
35	115	312.1	561.8	0.010	0.009	11.862	10.452	3.1215E-06	3.2966E-06	0.193
36	203	316.3	569.4	0.637	0.561	11.799	10.397	2.0367E-04	2.1517E-04	0.005
37	205	317.0	570.5	0.675	0.594	11.790	10.388	2.1605E-04	2.2825E-04	0.046
38	207	316.7	570.0	0.689	0.607	11.794	10.392	2.2042E-04	2.3287E-04	0.060
39	208	316.0	568.7	0.649	0.572	11.804	10.401	2.0746E-04	2.1916E-04	-0.076
40	210	314.9	566.7	0.510	0.450	11.821	10.416	1.6300E-04	1.7218E-04	-0.250
41	211	312.7	562.8	0.426	0.375	11.853	10.444	1.3557E-04	1.4318E-04	-0.112
42	212	312.4	562.3	0.307	0.271	11.858	10.448	9.7782E-05	1.0327E-04	0.141
43	GAP	306.1	551.0	-0.000	-0.000	11.950	10.530	-0.0000E-39	-0.0000E-39	0.094
44	214	338.7	609.6	0.001	0.000	11.469	10.106	1.8346E-07	1.9416E-07	0.916
45	215	309.6	557.3	0.005	0.005	11.898	10.484	1.6334E-06	1.7247E-06	0.960
46	306	338.7	609.7	0.001	0.000	11.468	10.105	1.7626E-07	1.8653E-07	1.436
47	307	313.3	564.0	0.632	0.557	11.843	10.435	2.0135E-04	2.1267E-04	0.005
48	308	312.8	563.0	0.614	0.541	11.852	10.443	1.9564E-04	2.0663E-04	-0.138
49	309	312.2	562.0	0.540	0.476	11.860	10.450	1.7185E-04	1.8149E-04	-0.253
50	310	311.9	561.5	0.505	0.445	11.864	10.454	1.6065E-04	1.6966E-04	-0.171
51	311	311.4	560.4	0.434	0.383	11.873	10.461	1.3809E-04	1.4583E-04	-0.004
52	312	310.2	558.4	0.267	0.235	11.889	10.476	8.4738E-05	8.9479E-05	0.308
53	313	308.7	555.6	0.158	0.139	11.913	10.497	5.0077E-05	5.2873E-05	0.561
54	314	309.3	556.8	0.038	0.034	11.903	10.488	1.2085E-05	1.2760E-05	0.941
55	315	308.9	556.0	0.005	0.005	11.909	10.493	1.6573E-06	1.7499E-06	2.677
56	316	308.4	555.1	-0.003	-0.002	11.916	10.500	-8.8734E-07	-9.3686E-07	-3.010
57	317	307.9	554.2	-0.006	-0.005	11.924	10.506	-1.7489E-06	-1.8464E-06	-0.790
58	318	307.7	553.9	-0.001	-0.001	11.926	10.508	-2.2710E-07	-2.3976E-07	-7.151
59	319	307.5	553.6	-0.004	-0.004	11.929	10.511	-1.3429E-06	-1.4178E-06	-1.242
60	320	307.6	553.6	-0.000	-0.000	11.929	10.511	-5.0617E-08	-5.3439E-08	-77.689
61	506	311.2	560.1	1.502	1.324	11.875	10.464	4.7730E-04	5.0404E-04	0.306
62	507	310.9	559.6	1.496	1.318	11.879	10.467	4.7506E-04	5.0166E-04	0.307
63	508	310.3	558.5	1.491	1.313	11.889	10.476	4.7309E-04	4.9956E-04	0.260
64	509	309.3	556.8	1.350	1.190	11.903	10.488	4.2793E-04	4.5164E-04	0.158
65	510	309.1	556.4	1.202	1.059	11.905	10.490	3.8082E-04	4.0209E-04	0.156
66	511	309.1	556.4	1.124	0.990	11.906	10.490	3.5616E-04	3.7606E-04	0.200
67	512	308.9	556.0	0.807	0.711	11.909	10.493	2.5563E-04	2.6990E-04	0.406
68	513	308.8	555.8	0.538	0.474	11.911	10.495	1.7027E-04	1.7978E-04	0.555
69	514	308.1	554.6	0.175	0.154	11.920	10.504	5.5334E-05	5.8421E-05	0.656
70	515	307.4	553.4	0.047	0.042	11.931	10.512	1.5008E-05	1.5845E-05	0.746
71	516	307.5	553.5	0.020	0.018	11.930	10.512	6.3239E-06	6.6764E-06	1.110
72	517	307.2	553.0	-0.038	-0.033	11.933	10.515	-1.1918E-05	-1.2582E-05	1.243
73	518	306.9	552.4	-0.022	-0.019	11.938	10.519	-8.9483E-06	-7.3354E-06	0.644
74	519	306.8	552.2	-0.004	-0.003	11.944	10.521	-1.2287E-06	-1.2972E-06	-1.960
75	520	306.4	551.5	-0.020	-0.018	11.946	10.526	-6.4198E-06	-6.7771E-06	0.464

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6733E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.836	7.925	7.632
PT2/PT1	5.241E-02	5.300E-02	5.105E-02
TEMP(DEG R)	2024.0	2045.4	2091.3
TT2/TT1	1.0143	1.0250	1.0480

ORIGINAL PAGE IS
OF POOR QUALITY

C-4

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 63 FRAME 26 TO 51 CONSTANT SET1542

REF1	REF2	REF3	A B C	MACH	RE/FT
0.0	0.0	0.0	0 0 8 1	5.10	0.1956E 07

PT(PSI)	TT(DEG R)	RS(FT)
305.68	2061.19	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	305.496	2061.449	0.276	0.308	780.075	-0.299	17.2241
0.070	305.496	2061.575	0.274	0.316	782.776	-0.312	17.6115
0.140	305.496	2062.221	0.274	0.380	782.776	-0.312	17.6155
0.210	305.496	2061.962	0.279	0.786	789.059	-0.312	17.6034
0.280	305.496	2060.931	0.298	2.695	820.961	-0.299	17.6034
0.350	304.947	2061.189	0.700	6.012	1147.343	-0.312	17.6034
0.420	305.496	2060.930	3.243	8.875	1690.524	-0.325	17.5994
0.490	304.947	2062.091	7.906	11.913	1954.430	-0.325	17.6074
0.560	304.947	2061.962	11.808	14.429	2020.733	-0.312	17.5953
0.630	305.496	2060.930	14.065	15.641	2038.954	-0.312	17.6034
0.700	304.947	2060.933	15.522	15.838	2038.954	-0.312	17.6074
0.770	305.313	2060.930	16.225	15.463	2065.511	-0.325	34.6863
0.840	305.496	2060.930	16.317	15.007	2084.853	-0.325	34.8921
0.910	305.678	2061.189	16.158	14.846	2079.703	-0.325	34.8840
0.980	305.678	2060.284	16.010	14.935	2097.064	-0.312	34.9122
1.050	305.496	2060.932	15.928	15.129	2079.058	-0.312	34.9001
1.120	305.496	2059.769	15.853	15.360	2098.989	-0.338	34.9203
1.190	305.496	2060.414	15.920	15.538	2098.989	-0.338	34.9203
1.260	305.678	2061.319	15.936	15.668	2092.568	-0.312	34.8961
1.330	305.678	2060.285	15.938	15.766	2100.272	-0.312	34.9042
1.400	305.496	2060.285	15.946	15.838	2111.805	-0.325	34.9203
1.470	305.678	2059.898	15.954	15.905	2105.401	-0.338	34.9243
1.540	305.496	2060.415	15.960	15.932	2115.004	-0.325	34.9243
1.610	305.678	2060.675	15.968	15.949	2133.518	-0.325	34.9203
1.680	305.678	2059.897	15.970	15.982	2115.004	-0.312	34.9203
1.750	305.496	2059.118	15.965	16.046	2130.968	-0.325	34.9203

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.4158E 06	1.9555E 06	0.305	20.79	1145.1	0.12122E 07	0.3048	1.000	RUN NO. 63
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9558E 06	1.9555E 06	1.000	305.68	2061.2	521.28	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.261	0.3081	0.3081	0.3520	0.3715	39	208	0.266	0.0607	0.0607	0.0694	0.0733
2	2	0.262	0.3067	0.3067	0.3504	0.3698	40	210	0.264	0.0506	0.0506	0.0579	0.0611
3	3	0.262	0.2993	0.2993	0.3420	0.3610	41	211	0.260	0.0423	0.0423	0.0483	0.0510
4	4	0.262	0.3047	0.3047	0.3481	0.3674	42	212	0.260	0.0318	0.0318	0.0363	0.0383
5	5	0.262	0.3014	0.3014	0.3444	0.3635	43	GAP	0.253	-0.0000	-0.0000	-0.0000	-0.0000
6	6	0.262	0.3060	0.3060	0.3496	0.3690	44	214	0.281	-0.0000	-0.0000	-0.0000	-0.0000
7	7	0.262	0.3131	0.3131	0.3577	0.3776	45	215	0.256	0.0020	0.0020	0.0022	0.0024
8	8	0.262	0.3051	0.3051	0.3486	0.3680	46	306	0.281	-0.0001	-0.0001	-0.0001	-0.0001
9	9	0.262	0.2907	0.2907	0.3322	0.3506	47	307	0.263	0.1217	0.1217	0.1391	0.1468
10	10	0.262	0.2627	0.2627	0.3002	0.3169	48	308	0.262	0.1090	0.1090	0.1245	0.1314
11	11	0.263	0.2091	0.2091	0.2389	0.2522	49	309	0.261	0.0878	0.0878	0.1002	0.1058
12	12	0.263	0.1507	0.1507	0.1722	0.1818	50	310	0.261	0.0769	0.0769	0.0879	0.0927
13	13	0.264	0.0974	0.0974	0.1113	0.1175	51	311	0.260	0.0606	0.0606	0.0692	0.0730
14	14	0.264	0.0704	0.0704	0.0805	0.0850	52	312	0.259	0.0433	0.0433	0.0494	0.0521
15	15	0.264	0.0529	0.0529	0.0605	0.0639	53	313	0.255	0.0366	0.0366	0.0417	0.0440
16	16	0.264	0.0488	0.0488	0.0557	0.0588	54	314	0.257	0.0137	0.0137	0.0156	0.0164
17	17	0.265	0.0483	0.0483	0.0552	0.0583	55	315	0.256	0.0038	0.0038	0.0043	0.0045
18	18	0.265	0.0491	0.0491	0.0561	0.0593	56	316	0.256	-0.0001	-0.0001	-0.0001	-0.0001
19	19	0.266	0.0494	0.0494	0.0564	0.0596	57	317	0.255	-0.0017	-0.0017	-0.0019	-0.0020
20	20	0.266	0.0515	0.0515	0.0589	0.0622	58	318	0.254	-0.0015	-0.0015	-0.0017	-0.0018
21	21	0.267	0.0550	0.0550	0.0628	0.0663	59	319	0.254	-0.0037	-0.0037	-0.0042	-0.0044
22	22	0.266	0.0592	0.0592	0.0677	0.0715	60	320	0.254	-0.0042	-0.0042	-0.0047	-0.0050
23	23	0.266	0.0644	0.0644	0.0737	0.0778	61	506	0.261	0.2702	0.2702	0.3087	0.3258
24	24	0.266	0.0706	0.0706	0.0808	0.0853	62	507	0.261	0.2610	0.2610	0.2981	0.3146
25	25	0.265	0.0716	0.0716	0.0819	0.0864	63	508	0.260	0.2602	0.2602	0.2972	0.3136
26	103	0.271	0.0720	0.0720	0.0824	0.0871	64	509	0.259	0.2365	0.2365	0.2700	0.2849
27	105	0.273	0.0782	0.0782	0.0895	0.0945	65	510	0.259	0.2313	0.2313	0.2640	0.2786
28	107	0.272	0.0718	0.0718	0.0822	0.0868	66	511	0.258	0.2215	0.2215	0.2529	0.2669
29	108	0.270	0.0650	0.0650	0.0744	0.0786	67	512	0.258	0.1842	0.1842	0.2103	0.2219
30	110	0.268	0.0511	0.0511	0.0584	0.0617	68	513	0.257	0.1453	0.1453	0.1658	0.1750
31	111	0.267	0.0436	0.0436	0.0499	0.0527	69	514	0.257	0.0771	0.0771	0.0880	0.0928
32	112	0.266	0.0303	0.0303	0.0346	0.0365	70	515	0.256	0.0419	0.0419	0.0478	0.0504
33	113	0.264	0.0167	0.0167	0.0191	0.0201	71	516	0.256	0.0244	0.0244	0.0279	0.0294
34	114	0.262	0.0047	0.0047	0.0054	0.0057	72	517	0.255	0.0120	0.0120	0.0137	0.0145
35	115	0.260	0.0008	0.0008	0.0010	0.0010	73	518	0.254	-0.0044	-0.0044	-0.0050	-0.0053
36	203	0.266	0.0758	0.0758	0.0867	0.0915	74	519	0.254	-0.0062	-0.0062	-0.0071	-0.0075
37	205	0.267	0.0711	0.0711	0.0813	0.0859	75	520	0.253	-0.0205	-0.0205	-0.0233	-0.0246
38	207	0.267	0.0631	0.0631	0.0722	0.0762							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.4158E 06	1.9555E 06	0.305	20.79	1145.1	0.12122E 07	0.3048	1.000	RUN NO.	63
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9558E 06	1.9555E 06	1.000	305.68	2061.2	521.28	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	315.6	568.1	5.460	4.811	17.719	15.612	8.3185E-04	8.7802E-04	0.441
2	2	316.4	569.5	5.429	4.784	17.703	15.599	8.2796E-04	8.7396E-04	0.428
3	3	316.4	569.6	5.299	4.669	17.702	15.597	8.0814E-04	8.5305E-04	0.432
4	4	316.4	569.4	5.394	4.753	17.703	15.599	8.2256E-04	8.6826E-04	0.428
5	5	316.6	569.8	5.335	4.701	17.699	15.595	8.1379E-04	8.5902E-04	0.416
6	6	316.3	569.3	5.417	4.773	17.704	15.600	8.2605E-04	8.7195E-04	0.416
7	7	316.4	569.6	5.542	4.883	17.701	15.597	8.4522E-04	8.9219E-04	0.416
8	8	316.7	570.1	5.399	4.758	17.695	15.591	8.2383E-04	8.6963E-04	0.416
9	9	316.7	570.0	5.145	4.533	17.696	15.592	7.8492E-04	8.2856E-04	0.410
10	10	316.7	570.0	4.650	4.097	17.696	15.593	7.0935E-04	7.4878E-04	0.395
11	11	316.9	570.5	3.699	3.259	17.690	15.588	5.6446E-04	5.9585E-04	0.362
12	12	317.3	571.1	2.665	2.349	17.683	15.581	4.0697E-04	4.2962E-04	0.258
13	13	318.1	572.6	1.720	1.516	17.666	15.566	2.6292E-04	2.7756E-04	0.104
14	14	318.6	573.5	1.244	1.096	17.656	15.557	1.9020E-04	2.0080E-04	-0.059
15	15	318.5	573.3	0.935	0.824	17.657	15.559	1.4293E-04	1.5089E-04	-0.168
16	16	318.9	574.1	0.861	0.758	17.648	15.551	1.3168E-04	1.3902E-04	-0.163
17	17	319.4	574.9	0.852	0.751	17.639	15.542	1.3047E-04	1.3775E-04	-0.154
18	18	320.3	576.5	0.865	0.762	17.619	15.525	1.3261E-04	1.4002E-04	-0.108
19	19	320.5	576.9	0.869	0.766	17.615	15.521	1.3330E-04	1.4075E-04	-0.072
20	20	320.7	577.3	0.907	0.799	17.611	15.517	1.3906E-04	1.4683E-04	-0.029
21	21	321.7	579.0	0.967	0.852	17.590	15.499	1.4842E-04	1.5673E-04	0.006
22	22	321.2	578.2	1.043	0.919	17.600	15.508	1.6002E-04	1.6897E-04	0.043
23	23	321.1	578.0	1.134	0.999	17.603	15.510	1.7399E-04	1.8373E-04	0.087
24	24	321.2	578.1	1.243	1.095	17.601	15.509	1.9076E-04	2.0143E-04	0.106
25	25	319.7	575.4	1.263	1.113	17.633	15.537	1.9342E-04	2.0422E-04	0.101
26	103	326.8	588.3	1.259	1.110	17.481	15.403	1.9467E-04	2.0564E-04	0.108
27	105	328.9	592.1	1.363	1.201	17.436	15.364	2.1123E-04	2.2317E-04	0.129
28	107	328.0	590.4	1.253	1.104	17.456	15.381	1.9404E-04	2.0499E-04	0.117
29	108	326.1	587.0	1.138	1.003	17.496	15.416	1.7572E-04	1.8561E-04	-0.047
30	110	323.9	583.1	0.896	0.790	17.542	15.457	1.3800E-04	1.4575E-04	-0.208
31	111	322.8	581.0	0.766	0.675	17.567	15.479	1.1782E-04	1.2442E-04	-0.107
32	112	320.8	577.4	0.533	0.470	17.609	15.516	8.1741E-05	8.6311E-05	0.077
33	113	318.8	573.8	0.295	0.260	17.651	15.553	4.5084E-05	4.7597E-05	0.079
34	114	316.6	570.0	0.084	0.074	17.697	15.593	1.2792E-05	1.3504E-05	-0.481
35	115	314.3	565.8	0.015	0.013	17.746	15.637	2.2536E-06	2.3784E-06	-3.819
36	203	321.1	577.9	1.334	1.176	17.603	15.511	2.0471E-04	2.1615E-04	0.081
37	205	322.2	580.0	1.250	1.102	17.579	15.490	1.9211E-04	2.0287E-04	0.070
38	207	322.0	579.5	1.110	0.978	17.584	15.494	1.7047E-04	1.8002E-04	0.046
39	208	320.8	577.4	1.069	0.942	17.609	15.516	1.6392E-04	1.7308E-04	-0.065
40	210	319.0	574.2	0.894	0.787	17.647	15.549	1.3676E-04	1.4438E-04	-0.286
41	211	314.2	565.6	0.751	0.661	17.748	15.638	1.1417E-04	1.2050E-04	-0.202
42	212	313.9	565.0	0.564	0.497	17.756	15.645	8.5707E-05	9.0453E-05	0.009
43	GAP	305.2	549.3	-0.000	-0.000	17.940	15.808	-0.0000E-39	-0.0000E-39	3.619
44	214	338.6	609.5	-0.000	-0.000	17.232	15.184	-6.2163E-08	-6.5724E-08	1.617
45	215	309.1	556.4	0.035	0.031	17.856	15.734	5.3009E-06	5.5926E-06	0.583
46	306	338.7	609.7	-0.001	-0.001	17.229	15.181	-1.7968E-07	-1.8997E-07	0.853
47	307	317.5	571.4	2.152	1.896	17.679	15.578	3.2868E-04	3.4698E-04	0.201
48	308	316.4	569.6	1.929	1.700	17.701	15.597	2.9427E-04	3.1063E-04	0.083
49	309	315.6	568.0	1.555	1.370	17.720	15.613	2.3691E-04	2.5006E-04	-0.182
50	310	315.1	567.2	1.364	1.202	17.729	15.622	2.0767E-04	2.1919E-04	-0.231
51	311	314.1	565.4	1.075	0.947	17.751	15.641	1.6344E-04	1.7250E-04	-0.196
52	312	312.2	561.9	0.770	0.679	17.792	15.677	1.1681E-04	1.2326E-04	0.108
53	313	308.2	554.7	0.654	0.576	17.876	15.752	9.8648E-05	1.0407E-04	0.309
54	314	309.7	557.5	0.244	0.215	17.843	15.722	3.6856E-05	3.8886E-05	0.224
55	315	309.3	556.8	0.067	0.059	17.852	15.730	1.0156E-05	1.0716E-05	0.030
56	316	308.5	555.3	-0.002	-0.002	17.869	15.745	-3.0252E-07	-3.1915E-07	3.101
57	317	307.2	553.0	-0.030	-0.026	17.897	15.770	-4.4998E-06	-4.7468E-06	-0.262
58	318	307.2	552.9	-0.027	-0.023	17.898	15.771	-4.0168E-06	-4.2372E-06	-0.277
59	319	306.8	552.2	-0.066	-0.058	17.907	15.778	-9.9607E-06	-1.0507E-05	-0.983
60	320	306.7	552.0	-0.074	-0.065	17.909	15.780	-1.1196E-05	-1.1810E-05	-1.253
61	506	315.6	568.1	4.788	4.219	17.719	15.613	7.2942E-04	7.6991E-04	0.383
62	507	314.9	566.9	4.628	4.078	17.733	15.625	7.0454E-04	7.4361E-04	0.391
63	508	313.9	565.0	4.620	4.071	17.755	15.644	7.0241E-04	7.4131E-04	0.397
64	509	312.5	562.5	4.205	3.706	17.784	15.670	6.3820E-04	6.7348E-04	0.252
65	510	312.2	562.0	4.114	3.625	17.791	15.676	6.2413E-04	6.5862E-04	0.202
66	511	311.7	561.1	3.944	3.475	17.801	15.685	5.9789E-04	6.3090E-04	0.209
67	512	311.3	560.3	3.281	2.891	17.810	15.693	4.9713E-04	5.2456E-04	0.356
68	513	310.7	559.3	2.589	2.281	17.823	15.704	3.9201E-04	4.1363E-04	0.441
69	514	309.7	557.5	1.376	1.212	17.844	15.723	2.0799E-04	2.1945E-04	0.427
70	515	308.5	555.3	0.749	0.660	17.870	15.745	1.1306E-04	1.1928E-04	0.389
71	516	308.6	555.4	0.437	0.385	17.869	15.745	6.5908E-05	6.9531E-05	0.384
72	517	308.0	554.3	0.215	0.190	17.881	15.756	3.2467E-05	3.4251E-05	0.306
73	518	307.1	552.8	-0.079	-0.070	17.899	15.771	-1.1936E-05	-1.2591E-05	1.388
74	519	306.6	552.0	-0.111	-0.098	17.909	15.780	-1.6773E-05	-1.7693E-05	0.847
75	520	305.8	550.5	-0.367	-0.323	17.927	15.796	-5.5216E-05	-5.8241E-05	0.557

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3338E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.713	15.965	16.046
PT2/PT1	5.467E-02	5.223E-02	5.249E-02
TEMP(DEG R)	2092.6	2131.0	2148.2
TT2/TT1	1.0152	1.0339	1.0422

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 64 FRAME 26 TO 52 CONSTANT SET1541

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9553E 06	149.52	2062.74	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.517	2062.224	0.165	0.204	717.418	-0.286	17.6034
0.070	149.334	2062.353	0.155	0.218	718.360	-0.299	17.6034
0.140	149.517	2062.095	0.155	0.335	719.302	-0.299	17.6115
0.210	149.334	2062.868	0.168	1.008	729.621	-0.312	17.6074
0.280	149.334	2062.481	0.271	2.453	905.598	-0.286	17.5953
0.350	149.517	2061.966	1.158	3.982	1464.010	-0.299	17.5590
0.420	149.334	2062.096	3.315	5.480	1831.275	-0.312	17.5994
0.490	149.517	2062.095	5.387	6.873	1939.203	-0.325	17.5469
0.560	149.517	2062.610	6.591	7.701	1983.426	-0.312	17.6115
0.630	149.517	2063.130	7.377	7.946	1984.740	-0.299	17.6074
0.700	149.517	2061.966	7.840	7.790	1982.112	-0.299	31.6320
0.770	149.334	2061.967	8.012	7.476	2006.368	-0.312	34.8800
0.840	149.334	2062.225	8.012	7.273	2027.899	-0.325	34.9042
0.910	149.517	2062.740	7.959	7.262	2034.405	-0.312	34.9163
0.980	149.517	2063.130	7.922	7.382	2042.849	-0.299	34.9122
1.050	149.517	2061.837	7.891	7.521	2033.755	-0.299	34.9122
1.120	149.517	2062.096	7.877	7.596	2042.849	-0.312	34.9203
1.190	149.517	2061.837	7.893	7.651	2069.386	-0.325	34.9324
1.260	149.334	2062.352	7.914	7.693	2058.400	-0.325	34.9284
1.330	149.334	2062.352	7.914	7.715	2071.967	-0.312	34.9203
1.400	149.517	2061.708	7.914	7.749	2076.481	-0.299	34.9203
1.470	149.334	2061.837	7.904	7.776	2073.257	-0.312	34.9203
1.540	149.517	2062.095	7.904	7.790	2071.322	-0.325	34.9284
1.610	149.517	2062.480	7.901	7.832	2066.803	-0.325	34.9284
1.680	149.517	2062.481	7.898	7.857	2077.125	-0.325	34.9203
1.750	149.517	2061.836	7.906	7.874	2085.496	-0.299	34.9203
1.820	149.334	2061.708	7.917	7.890	2084.853	-0.312	34.9203

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1342E 06	9.5530E 05	0.305	10.17	1146.0	0.12132E 07	0.3048	1.000	RUN NO. 64
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5530E 05	9.5530E 05	1.000	149.52	2062.7	521.71	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.260	0.1727	0.1727	0.1972	0.2081	39	208	0.265	0.0535	0.0535	0.0611	0.0645
2	2	0.261	0.1602	0.1602	0.1830	0.1932	40	210	0.264	0.0428	0.0428	0.0489	0.0517
3	3	0.261	0.1434	0.1434	0.1637	0.1728	41	211	0.262	0.0352	0.0352	0.0402	0.0424
4	4	0.261	0.1328	0.1328	0.1517	0.1601	42	212	0.262	0.0257	0.0257	0.0294	0.0310
5	5	0.261	0.1186	0.1186	0.1355	0.1430	43	GAP	0.257	-0.0000	-0.0000	-0.0000	-0.0000
6	6	0.261	0.1079	0.1079	0.1233	0.1301	44	214	0.280	-0.0000	-0.0000	-0.0000	-0.0000
7	7	0.261	0.0900	0.0900	0.1028	0.1085	45	215	0.260	0.0005	0.0005	0.0006	0.0006
8	8	0.261	0.0730	0.0730	0.0834	0.0880	46	306	0.280	0.0000	0.0000	0.0000	0.0000
9	9	0.261	0.0628	0.0628	0.0717	0.0757	47	307	0.263	0.0436	0.0436	0.0498	0.0526
10	10	0.261	0.0561	0.0561	0.0640	0.0676	48	308	0.262	0.0413	0.0413	0.0472	0.0498
11	11	0.262	0.0486	0.0486	0.0555	0.0586	49	309	0.262	0.0358	0.0358	0.0409	0.0432
12	12	0.262	0.0445	0.0445	0.0508	0.0536	50	310	0.262	0.0334	0.0334	0.0381	0.0402
13	13	0.262	0.0418	0.0418	0.0477	0.0504	51	311	0.261	0.0283	0.0283	0.0324	0.0341
14	14	0.263	0.0441	0.0441	0.0504	0.0532	52	312	0.260	0.0182	0.0182	0.0208	0.0220
15	15	0.263	0.0438	0.0438	0.0500	0.0528	53	313	0.259	0.0099	0.0099	0.0113	0.0119
16	16	0.263	0.0471	0.0471	0.0539	0.0569	54	314	0.260	0.0026	0.0026	0.0030	0.0032
17	17	0.264	0.0505	0.0505	0.0577	0.0609	55	315	0.259	0.0000	0.0000	0.0000	0.0000
18	18	0.264	0.0534	0.0534	0.0610	0.0644	56	316	0.259	-0.0001	-0.0001	-0.0002	-0.0002
19	19	0.265	0.0555	0.0555	0.0634	0.0670	57	317	0.258	-0.0004	-0.0004	-0.0005	-0.0005
20	20	0.265	0.0570	0.0570	0.0651	0.0687	58	318	0.258	-0.0003	-0.0003	-0.0003	-0.0003
21	21	0.265	0.0600	0.0600	0.0686	0.0724	59	319	0.258	-0.0002	-0.0002	-0.0002	-0.0002
22	22	0.265	0.0616	0.0616	0.0704	0.0743	60	320	0.258	0.0000	0.0000	0.0000	0.0000
23	23	0.265	0.0637	0.0637	0.0728	0.0769	61	506	0.261	0.1188	0.1188	0.1357	0.1433
24	24	0.266	0.0690	0.0690	0.0789	0.0833	62	507	0.260	0.1178	0.1178	0.1345	0.1420
25	25	0.265	0.0716	0.0716	0.0819	0.0864	63	508	0.260	0.1160	0.1160	0.1325	0.1398
26	103	0.272	0.0587	0.0587	0.0672	0.0710	64	509	0.259	0.1049	0.1049	0.1198	0.1264
27	105	0.270	0.0655	0.0655	0.0749	0.0792	65	510	0.259	0.0924	0.0924	0.1055	0.1113
28	107	0.269	0.0703	0.0703	0.0804	0.0849	66	511	0.259	0.0867	0.0867	0.0990	0.1045
29	108	0.268	0.0601	0.0601	0.0688	0.0726	67	512	0.259	0.0612	0.0612	0.0699	0.0737
30	110	0.267	0.0448	0.0448	0.0513	0.0541	68	513	0.259	0.0405	0.0405	0.0463	0.0488
31	111	0.267	0.0369	0.0369	0.0421	0.0445	69	514	0.258	0.0126	0.0126	0.0144	0.0152
32	112	0.266	0.0242	0.0242	0.0276	0.0292	70	515	0.258	0.0045	0.0045	0.0051	0.0054
33	113	0.265	0.0160	0.0140	0.0160	0.0169	71	516	0.258	0.0009	0.0009	0.0011	0.0011
34	114	0.263	0.0037	0.0037	0.0042	0.0045	72	517	0.258	-0.0006	-0.0006	-0.0007	-0.0007
35	115	0.262	0.0006	0.0006	0.0007	0.0007	73	518	0.257	-0.0010	-0.0010	-0.0011	-0.0012
36	203	0.265	0.0599	0.0599	0.0685	0.0723	74	519	0.257	-0.0003	-0.0003	-0.0004	-0.0004
37	205	0.266	0.0569	0.0569	0.0650	0.0687	75	520	0.257	-0.0016	-0.0016	-0.0018	-0.0019
38	207	0.266	0.0553	0.0553	0.0632	0.0668							

ORIGINAL PAGE IS
OF POOR QUALITY.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULES/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.1342E 06	9.5530E 05	0.305	10.17	1146.0	0.12132E 07	0.3048	1.CCC	RUN NO.	64
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.5530E 05	9.5530E 05	1.000	149.52	2062.7	521.71	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	QW(W/CM2)	QW(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.674)	TIME(SEC)
1	1	314.4	565.9	2.145	1.890	12.424	10.948	6.6677E-04	7.0371E-04	0.391
2	2	314.7	566.5	1.990	1.754	12.419	10.943	6.1881E-04	6.5311E-04	0.375
3	3	314.8	566.6	1.780	1.569	12.418	10.942	5.5361E-04	5.8429E-04	0.372
4	4	314.8	566.6	1.649	1.453	12.419	10.942	5.1289E-04	5.4132E-04	0.352
5	5	314.9	566.9	1.473	1.298	12.416	10.940	4.5803E-04	4.8343E-04	0.321
6	6	314.8	566.7	1.340	1.181	12.418	10.942	4.1677E-04	4.3987E-04	0.298
7	7	315.0	567.0	1.117	0.985	12.415	10.939	3.4757E-04	3.6684E-04	0.244
8	8	315.3	567.6	0.906	0.799	12.410	10.935	2.8205E-04	2.9770E-04	0.169
9	9	315.4	567.8	0.779	0.687	12.408	10.933	2.4259E-04	2.5604E-04	0.098
10	10	315.7	568.2	0.696	0.613	12.405	10.930	2.1654E-04	2.2856E-04	0.045
11	11	316.0	568.8	0.603	0.531	12.400	10.926	1.8766E-04	1.9808E-04	-0.027
12	12	316.4	569.5	0.551	0.486	12.394	10.921	1.7180E-04	1.8135E-04	-0.110
13	13	317.1	570.7	0.517	0.456	12.384	10.912	1.6134E-04	1.7031E-04	-0.132
14	14	317.4	571.3	0.546	0.481	12.379	10.908	1.7042E-04	1.7990E-04	-0.114
15	15	317.6	571.6	0.542	0.478	12.377	10.906	1.6918E-04	1.7860E-04	-0.076
16	16	317.9	572.3	0.583	0.514	12.371	10.901	1.8207E-04	1.9221E-04	-0.019
17	17	318.4	573.1	0.624	0.550	12.364	10.895	1.9505E-04	2.0591E-04	0.006
18	18	319.1	574.4	0.660	0.581	12.354	10.885	2.0626E-04	2.1776E-04	0.049
19	19	319.5	575.2	0.685	0.604	12.348	10.880	2.1441E-04	2.2637E-04	0.083
20	20	320.0	576.0	0.703	0.619	12.341	10.874	2.2003E-04	2.3231E-04	0.099
21	21	320.6	577.2	0.740	0.652	12.331	10.865	2.3173E-04	2.4467E-04	0.128
22	22	320.6	577.0	0.760	0.669	12.332	10.866	2.3798E-04	2.5128E-04	0.125
23	23	320.7	577.2	0.786	0.692	12.331	10.865	2.4618E-04	2.5993E-04	0.131
24	24	320.9	577.6	0.851	0.750	12.328	10.862	2.6665E-04	2.8155E-04	0.145
25	25	320.1	576.2	0.884	0.779	12.339	10.872	2.7669E-04	2.9214E-04	0.153
26	103	329.0	592.3	0.716	0.631	12.207	10.756	2.2686E-04	2.3968E-04	0.461
27	105	326.0	586.8	0.803	0.707	12.252	10.795	2.5320E-04	2.6745E-04	0.143
28	107	325.4	585.6	0.862	0.759	12.261	10.804	2.7167E-04	2.8695E-04	0.125
29	108	324.2	583.6	0.738	0.650	12.278	10.819	2.3237E-04	2.4541E-04	0.011
30	110	322.8	581.1	0.551	0.486	12.299	10.837	1.7322E-04	1.8293E-04	-0.013
31	111	322.1	579.7	0.454	0.400	12.310	10.847	1.4240E-04	1.5037E-04	0.098
32	112	320.8	577.5	0.298	0.262	12.329	10.863	9.3316E-05	9.8531E-05	0.353
33	113	319.7	575.4	0.173	0.152	12.346	10.878	5.4145E-05	5.7166E-05	0.607
34	114	318.3	572.9	0.046	0.040	12.366	10.896	1.4347E-05	1.5146E-05	0.876
35	115	316.9	570.4	0.007	0.006	12.387	10.914	2.2863E-06	2.4134E-06	1.223
36	203	320.4	576.6	0.739	0.651	12.335	10.869	2.3152E-04	2.4445E-04	0.085
37	205	321.0	577.8	0.701	0.618	12.326	10.860	2.1978E-04	2.3207E-04	0.086
38	207	320.8	577.5	0.682	0.601	12.328	10.863	2.1373E-04	2.2567E-04	0.065
39	208	320.1	576.2	0.660	0.581	12.339	10.872	2.0652E-04	2.1806E-04	-0.027
40	210	319.1	574.4	0.529	0.466	12.354	10.886	1.6539E-04	1.7461E-04	-0.146
41	211	316.9	570.4	0.436	0.384	12.387	10.915	1.3584E-04	1.4339E-04	-0.028
42	212	316.4	569.6	0.319	0.281	12.394	10.921	9.9392E-05	1.0491E-04	0.213
43	GAP	310.0	558.1	-0.000	-0.000	12.489	11.004	-0.0000E-39	-0.0000E-39	-13.427
44	214	338.7	609.6	-0.000	-0.000	12.064	10.630	-7.6388E-08	-8.0763E-08	1.832
45	215	313.7	564.6	0.007	0.006	12.434	10.956	2.0366E-06	2.1494E-06	1.794
46	306	338.7	609.7	0.000	0.000	12.064	10.630	1.2520E-10	1.3237E-10	215.858
47	307	317.4	571.3	0.540	0.476	12.380	10.908	1.6846E-04	1.7783E-04	-0.085
48	308	316.8	570.3	0.511	0.451	12.388	10.915	1.5945E-04	1.6832E-04	-0.235
49	309	316.3	569.3	0.444	0.391	12.396	10.922	1.3843E-04	1.4612E-04	-0.336
50	310	315.9	568.7	0.414	0.365	12.401	10.927	1.2883E-04	1.3598E-04	-0.249
51	311	315.2	567.3	0.352	0.310	12.412	10.937	1.0938E-04	1.1544E-04	-0.074
52	312	314.0	565.1	0.226	0.200	12.430	10.953	7.0355E-05	7.4250E-05	0.312
53	313	313.1	563.6	0.123	0.108	12.443	10.964	3.8186E-05	4.0297E-05	0.526
54	314	313.6	564.5	0.033	0.029	12.435	10.957	1.0110E-05	1.0669E-05	1.049
55	315	313.1	563.5	0.000	0.000	12.444	10.965	1.4703E-07	1.5517E-07	25.088
56	316	312.5	562.4	-0.002	-0.002	12.453	10.972	-5.6956E-07	-6.0104E-07	-8.464
57	317	311.9	561.4	-0.005	-0.005	12.461	10.980	-1.6336E-06	-1.7238E-06	-1.329
58	318	311.8	561.2	-0.003	-0.003	12.463	10.981	-1.0149E-06	-1.0709E-06	-0.959
59	319	311.6	560.9	-0.002	-0.002	12.465	10.984	-6.4287E-07	-6.7835E-07	-5.069
60	320	311.5	560.7	0.000	0.000	12.467	10.985	2.4920E-08	2.6295E-08	170.071
61	506	315.0	567.1	1.475	1.300	12.414	10.939	4.5895E-04	4.8440E-04	0.304
62	507	314.6	566.3	1.463	1.289	12.420	10.944	4.5484E-04	4.8005E-04	0.297
63	508	313.9	564.9	1.442	1.271	12.432	10.954	4.4791E-04	4.7270E-04	0.269
64	509	312.8	563.0	1.306	1.151	12.448	10.968	4.0513E-04	4.2752E-04	0.222
65	510	313.4	564.2	1.149	1.013	12.438	10.960	3.5676E-04	3.7650E-04	0.201
66	511	313.3	564.0	1.079	0.950	12.440	10.961	3.3480E-04	3.5332E-04	0.241
67	512	313.1	563.5	0.761	0.671	12.444	10.964	2.3625E-04	2.4931E-04	0.402
68	513	312.8	563.1	0.504	0.444	12.447	10.968	1.5647E-04	1.6512E-04	0.532
69	514	312.2	561.9	0.157	0.138	12.457	10.976	4.8589E-05	5.1273E-05	0.641
70	515	311.5	560.8	0.056	0.049	12.466	10.984	1.7230E-05	1.8181E-05	0.907
71	516	311.5	560.7	0.011	0.010	12.467	10.985	3.5533E-06	3.7494E-06	1.136
72	517	311.2	560.2	-0.008	-0.007	12.471	10.989	-2.3770E-06	-2.5081E-06	0.061
73	518	310.8	559.4	-0.012	-0.011	12.477	10.994	-3.8213E-06	-4.0320E-06	-0.079
74	519	310.6	559.1	-0.004	-0.003	12.480	10.997	-1.2002E-06	-1.2663E-06	-4.724
75	520	310.1	558.2	-0.020	-0.018	12.487	11.003	-6.2183E-06	-6.5608E-06	-0.917

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6075E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.048	7.917	7.890
PT2/PT1	5.383E-02	5.295E-02	5.277E-02
TEMP(DEG R)	2073.3	2084.9	2154.5
TT2/TT1	1.0051	1.0107	1.0445

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 65 FRAME 26 TO 52 CONSTANT SET 542

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	C 0 8 1	5.10	0.2105E 07		304.64	1968.86	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.456	1966.882	0.315	0.330	771.035	-0.307	17.6047
0.070	304.456	1967.670	0.310	0.349	771.035	-0.307	17.6128
0.140	304.456	1968.458	0.310	0.427	773.753	-0.294	17.6128
0.210	304.639	1967.670	0.310	0.936	778.271	-0.294	17.6047
0.280	304.456	1968.064	0.328	3.065	819.206	-0.294	17.6087
0.350	304.456	1967.539	0.887	6.442	1207.817	-0.307	17.6087
0.420	304.456	1968.326	4.016	9.305	1707.881	-0.307	17.6087
0.490	304.456	1968.989	8.913	12.485	1884.526	-0.307	17.6006
0.560	304.639	1967.802	12.359	14.809	1934.560	-0.281	17.5966
0.630	304.456	1967.277	14.562	15.799	1942.517	-0.294	17.5966
0.700	304.456	1967.408	15.859	15.793	1962.355	-0.320	17.6006
0.770	304.456	1968.202	16.322	15.301	1974.219	-0.307	34.9026
0.840	304.456	1969.255	16.256	14.893	1993.272	-0.294	34.9228
0.910	304.639	1968.860	16.089	14.801	2021.385	-0.281	34.8986
0.980	304.639	1968.071	15.965	14.998	2018.124	-0.307	34.9147
1.050	304.456	1968.070	15.904	15.296	1999.824	-0.320	34.8986
1.120	304.456	1968.858	15.877	15.532	1993.272	-0.307	34.8663
1.190	304.456	1969.649	15.885	15.699	2020.081	-0.307	34.9026
1.260	304.639	1969.254	15.899	15.807	2023.991	-0.294	34.9147
1.330	304.456	1968.590	15.906	15.877	1997.860	-0.294	34.9268
1.400	304.456	1968.459	15.912	15.913	2037.005	-0.320	34.9309
1.470	304.456	1969.384	15.925	15.943	2018.124	-0.320	34.9309
1.540	304.456	1970.043	15.912	16.004	2036.355	-0.307	34.9309
1.610	304.822	1969.384	15.912	16.074	2032.454	-0.294	34.9268
1.680	304.456	1969.121	15.901	16.102	2021.385	-0.307	34.9309
1.750	304.456	1968.853	15.912	16.138	2021.385	-0.320	34.9309
1.820	304.639	1969.515	15.912	16.163	2023.340	-0.320	34.9268

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.9077E 06	2.1055E 06 0.305	20.72	1093.8	0.11528E 07	0.3048	1.000	RUN NO. 65
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	HAW/HT	
5.10	2.1055E C6	2.1055E 06 1.000	304.64	1968.9	495.74	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.277	0.2958	0.2958	0.3389	0.3581	39	208	0.283	0.0468	0.0468	0.0537	0.0568
2	2	0.277	0.3011	0.3011	0.3450	0.3646	40	210	0.281	0.0353	0.0353	0.0405	0.0428
3	3	0.277	0.2953	0.2953	0.3383	0.3576	41	211	0.275	0.0278	0.0278	0.0318	0.0336
4	4	0.277	0.3063	0.3063	0.3510	0.3710	42	212	0.276	0.0195	0.0195	0.0223	0.0236
5	5	0.278	0.3063	0.3063	0.3510	0.3710	43	213	0.295	0.0000	0.0000	0.0000	0.0000
6	6	0.277	0.3104	0.3104	0.3557	0.3760	44	214	0.295	-0.0000	-0.0000	-0.0000	-0.0000
7	7	0.278	0.3227	0.3227	0.3698	0.3909	45	215	0.273	-0.0019	-0.0019	-0.0022	-0.0023
8	8	0.278	0.3280	0.3280	0.3759	0.3974	46	306	0.295	0.0000	0.0000	0.0000	0.0000
9	9	0.278	0.3333	0.3333	0.3820	0.4038	47	307	0.280	0.1463	0.1463	0.1678	0.1774
10	10	0.278	0.3271	0.3271	0.3749	0.3963	48	308	0.279	0.1310	0.1310	0.1502	0.1588
11	11	0.279	0.2858	0.2858	0.3275	0.3462	49	309	0.278	0.1086	0.1086	0.1245	0.1316
12	12	0.279	0.2293	0.2293	0.2629	0.2779	50	310	0.278	0.0970	0.0970	0.1111	0.1175
13	13	0.280	0.1592	0.1592	0.1826	0.1930	51	311	0.277	0.0788	0.0788	0.0903	0.0954
14	14	0.280	0.1140	0.1140	0.1307	0.1381	52	312	0.275	0.0457	0.0457	0.0523	0.0553
15	15	0.280	0.0794	0.0794	0.0910	0.0962	53	313	0.269	0.0327	0.0327	0.0374	0.0395
16	16	0.281	0.0652	0.0652	0.0748	0.0790	54	314	0.271	0.0084	0.0084	0.0096	0.0102
17	17	0.281	0.0601	0.0601	0.0689	0.0728	55	315	0.271	-0.0009	-0.0009	-0.0010	-0.0010
18	18	0.282	0.0577	0.0577	0.0661	0.0699	56	316	0.272	-0.0032	-0.0032	-0.0036	-0.0038
19	19	0.282	0.0568	0.0568	0.0652	0.0689	57	317	0.271	-0.0040	-0.0040	-0.0046	-0.0049
20	20	0.283	0.0567	0.0567	0.0651	0.0688	58	318	0.271	-0.0033	-0.0033	-0.0038	-0.0040
21	21	0.283	0.0572	0.0572	0.0656	0.0694	59	319	0.271	-0.0038	-0.0038	-0.0043	-0.0046
22	22	0.283	0.0580	0.0580	0.0666	0.0704	60	320	0.271	-0.0039	-0.0039	-0.0044	-0.0047
23	23	0.283	0.0588	0.0588	0.0674	0.0713	61	506	0.277	0.2633	0.2633	0.3016	0.3188
24	24	0.283	0.0606	0.0606	0.0695	0.0735	62	507	0.276	0.2539	0.2539	0.2909	0.3074
25	25	0.282	0.0612	0.0612	0.0702	0.0742	63	508	0.276	0.2450	0.2450	0.2806	0.2965
26	103	0.288	0.0550	0.0550	0.0631	0.0668	64	509	0.274	0.2187	0.2187	0.2504	0.2646
27	105	0.290	0.0541	0.0541	0.0622	0.0658	65	510	0.274	0.2027	0.2027	0.2321	0.2453
28	107	0.289	0.0508	0.0508	0.0584	0.0617	66	511	0.274	0.1900	0.1900	0.2176	0.2299
29	108	0.287	0.0429	0.0429	0.0493	0.0521	67	512	0.274	0.1444	0.1444	0.1653	0.1747
30	110	0.285	0.0311	0.0311	0.0357	0.0378	68	513	0.273	0.1008	0.1008	0.1154	0.1219
31	111	0.284	0.0257	0.0257	0.0294	0.0311	69	514	0.272	0.0285	0.0285	0.0326	0.0345
32	112	0.282	0.0175	0.0175	0.0200	0.0212	70	515	0.271	0.0029	0.0029	0.0034	0.0035
33	113	0.281	0.0100	0.0100	0.0114	0.0121	71	516	0.271	-0.0034	-0.0034	-0.0039	-0.0041
34	114	0.279	0.0029	0.0029	0.0033	0.0035	72	517	0.271	-0.0047	-0.0047	-0.0054	-0.0057
35	115	0.277	0.0003	0.0003	0.0004	0.0004	73	518	0.270	-0.0078	-0.0078	-0.0089	-0.0094
36	203	0.284	0.0564	0.0564	0.0647	0.0684	74	519	0.270	-0.0081	-0.0081	-0.0093	-0.0098
37	205	0.284	0.0548	0.0548	0.0629	0.0665	75	520	0.269	-0.0146	-0.0146	-0.0166	-0.0176
38	207	0.284	0.0517	0.0517	0.0593	0.0627							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.9077E 06	2.1055E 06	0.305	20.72	1093.8	0.11528E 07	0.3048	1.000	RUN NO. 65
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.1055E 06	2.1055E 06	1.000	304.64	1968.9	495.74	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	QW(W/CM2)	QW(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	317.5	571.4	4.875	4.295	16.481	14.522	7.7524E-04	8.1936E-04	0.365
2	2	318.1	572.6	4.958	4.369	16.468	14.510	7.8923E-04	8.3419E-04	0.362
3	3	318.2	572.8	4.862	4.284	16.465	14.508	7.7398E-04	8.1808E-04	0.371
4	4	318.4	573.0	5.043	4.443	16.463	14.506	8.0299E-04	8.4875E-04	0.373
5	5	318.7	573.7	5.040	4.441	16.455	14.499	8.0288E-04	8.4866E-04	0.366
6	6	318.4	573.1	5.110	4.503	16.461	14.505	8.1373E-04	8.6011E-04	0.368
7	7	318.7	573.7	5.310	4.679	16.455	14.499	8.4594E-04	8.9417E-04	0.374
8	8	319.3	574.7	5.393	4.752	16.443	14.488	8.5990E-04	9.0897E-04	0.386
9	9	319.2	574.6	5.481	4.830	16.444	14.490	8.7384E-04	9.2370E-04	0.392
10	10	319.5	575.1	5.377	4.738	16.439	14.485	8.5758E-04	9.0653E-04	0.399
11	11	319.9	575.8	4.695	4.137	16.430	14.477	7.4919E-04	7.9198E-04	0.387
12	12	320.2	576.4	3.766	3.318	16.423	14.471	6.0123E-04	6.3559E-04	0.341
13	13	321.4	578.5	2.612	2.301	16.399	14.450	4.1757E-04	4.4148E-04	0.270
14	14	321.7	579.1	1.868	1.646	16.391	14.443	2.9881E-04	3.1592E-04	0.166
15	15	321.9	579.4	1.300	1.146	16.389	14.440	2.0809E-04	2.2001E-04	0.090
16	16	322.3	580.2	1.068	0.941	16.379	14.432	1.7098E-04	1.8078E-04	0.030
17	17	322.9	581.2	0.983	0.866	16.368	14.422	1.5752E-04	1.6656E-04	0.002
18	18	323.9	583.1	0.942	0.830	16.345	14.402	1.5124E-04	1.5993E-04	0.005
19	19	323.9	583.1	0.929	0.818	16.345	14.402	1.4902E-04	1.5759E-04	0.024
20	20	324.3	583.8	0.927	0.817	16.336	14.395	1.4880E-04	1.5736E-04	0.031
21	21	325.3	585.6	0.933	0.822	16.316	14.377	1.4999E-04	1.5863E-04	0.063
22	22	324.6	584.3	0.947	0.835	16.330	14.389	1.5218E-04	1.6093E-04	0.053
23	23	324.4	584.0	0.960	0.846	16.334	14.393	1.5415E-04	1.6301E-04	0.063
24	24	324.6	584.2	0.990	0.872	16.332	14.391	1.5896E-04	1.6810E-04	0.057
25	25	323.4	582.1	1.001	0.882	16.357	14.413	1.6050E-04	1.6971E-04	0.066
26	103	330.8	595.5	0.890	0.784	16.200	14.275	1.4423E-04	1.5261E-04	0.050
27	105	332.6	598.7	0.875	0.771	16.163	14.242	1.4206E-04	1.5033E-04	0.052
28	107	331.4	596.6	0.822	0.725	16.187	14.263	1.3336E-04	1.4111E-04	0.022
29	108	329.5	593.1	0.697	0.614	16.228	14.299	1.1264E-04	1.1917E-04	-0.137
30	110	327.2	589.0	0.507	0.447	16.276	14.342	8.1712E-05	8.6429E-05	-0.192
31	111	326.0	586.8	0.418	0.369	16.301	14.364	6.7327E-05	7.1207E-05	-0.050
32	112	324.2	583.5	0.286	0.252	16.340	14.398	4.5844E-05	4.8479E-05	0.318
33	113	322.3	580.1	0.163	0.144	16.379	14.432	2.6161E-05	2.7661E-05	0.779
34	114	320.2	576.4	0.048	0.042	16.423	14.471	7.6615E-06	8.0993E-06	1.410
35	115	318.1	572.6	0.005	0.005	16.468	14.510	8.1517E-07	8.6161E-07	4.657
36	203	325.6	586.0	0.920	0.810	16.311	14.372	1.4792E-04	1.5644E-04	0.050
37	205	326.5	587.7	0.893	0.787	16.291	14.355	1.4374E-04	1.5203E-04	0.024
38	207	326.1	587.0	0.842	0.742	16.299	14.362	1.3553E-04	1.4334E-04	-0.006
39	208	324.8	584.7	0.765	0.674	16.326	14.386	1.2288E-04	1.2995E-04	-0.120
40	210	323.0	581.4	0.577	0.509	16.365	14.419	9.2527E-05	9.7836E-05	-0.291
41	211	315.3	567.5	0.459	0.404	16.527	14.563	7.2788E-05	7.6917E-05	-0.176
42	212	316.7	570.1	0.321	0.283	16.498	14.537	5.0996E-05	5.3895E-05	0.127
43	213	338.7	609.7	0.000	0.000	16.034	14.128	2.7104E-16	2.8696E-16	*******
44	214	338.6	609.5	-0.000	-0.000	16.037	14.130	-5.9010E-14	-6.2475E-14	*******
45	215	313.5	564.4	-0.031	-0.028	16.564	14.595	-4.9370E-06	-5.2164E-06	0.536
46	306	338.7	609.7	0.001	0.001	16.033	14.128	9.3778E-08	9.9286E-08	2.099
47	307	321.1	578.0	2.401	2.115	16.405	14.455	3.8370E-04	4.0565E-04	0.302
48	308	320.0	576.0	2.152	1.897	16.428	14.475	3.4351E-04	3.6313E-04	0.197
49	309	319.0	574.2	1.787	1.574	16.449	14.494	2.8478E-04	3.0102E-04	0.089
50	310	318.6	573.5	1.596	1.406	16.457	14.501	2.5425E-04	2.6874E-04	0.108
51	311	317.4	571.4	1.299	1.144	16.482	14.523	2.0652E-04	2.1828E-04	0.225
52	312	315.6	568.1	0.755	0.665	16.520	14.557	1.1977E-04	1.2657E-04	0.494
53	313	309.0	556.2	0.544	0.480	16.660	14.679	8.5549E-05	9.0358E-05	0.657
54	314	311.0	559.7	0.140	0.123	16.619	14.643	2.1998E-05	2.3238E-05	0.994
55	315	311.4	560.5	-0.014	-0.013	16.610	14.636	-2.2463E-06	-2.3730E-06	-1.311
56	316	311.9	561.4	-0.053	-0.046	16.599	14.626	-8.3198E-06	-8.7895E-06	0.337
57	317	311.4	560.5	-0.067	-0.059	16.610	14.636	-1.0522E-05	-1.1115E-05	0.446
58	318	311.4	560.6	-0.055	-0.048	16.608	14.634	-8.6012E-06	-9.0864E-06	0.498
59	319	310.8	559.5	-0.063	-0.055	16.622	14.646	-9.9196E-06	-1.0479E-05	0.370
60	320	310.6	559.1	-0.065	-0.057	16.626	14.650	-1.0169E-05	-1.0742E-05	0.162
61	506	318.0	572.4	4.336	3.820	16.470	14.512	6.9006E-04	7.2936E-04	0.301
62	507	317.2	571.0	4.186	3.688	16.487	14.527	6.6549E-04	7.0335E-04	0.296
63	508	316.2	569.2	4.044	3.563	16.507	14.545	6.4202E-04	6.7849E-04	0.272
64	509	314.8	566.6	3.617	3.187	16.538	14.572	5.7305E-04	6.0554E-04	0.212
65	510	314.5	566.9	3.351	2.953	16.534	14.569	5.3108E-04	5.6119E-04	0.214
66	511	314.7	566.4	3.143	2.769	16.540	14.574	4.9793E-04	5.2615E-04	0.217
67	512	314.4	565.9	2.389	2.105	16.546	14.579	3.7833E-04	3.9977E-04	0.360
68	513	313.8	564.8	1.668	1.470	16.559	14.591	2.6400E-04	2.7894E-04	0.528
69	514	312.7	562.9	0.473	0.417	16.582	14.611	7.4687E-05	7.8909E-05	0.743
70	515	311.4	560.5	0.049	0.043	16.609	14.635	7.6761E-06	8.1091E-06	1.579
71	516	311.5	560.7	-0.057	-0.050	16.607	14.633	-8.9841E-06	-9.4910E-06	-0.266
72	517	310.7	559.3	-0.079	-0.070	16.623	14.647	-1.2439E-05	-1.3140E-05	-0.057
73	518	310.2	558.4	-0.130	-0.114	16.634	14.657	-2.0439E-05	-2.1590E-05	0.048
74	519	309.8	557.6	-0.135	-0.119	16.643	14.665	-2.1183E-05	-2.2375E-05	0.186
75	520	309.0	556.2	-0.242	-0.214	16.660	14.680	-3.8111E-05	-4.0253E-05	0.014

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.5014E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.828	15.912	16.163
PT2/PTI	5.524E-02	5.223E-02	5.306E-02
TEMP(DEG R)	2007.0	2023.3	2058.4
TT2/TT1	1.0194	1.0277	1.0455

IGINAL PAGE IS
POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 66 FRAME 26 TO 52 CONSTANT SET 311

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8 1	5.10	0.4583E 06	74.53	2109.85	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	74.529	2110.107	0.092	0.106	670.364	-0.260	17.6074
0.070	74.529	2109.342	0.089	0.106	671.342	-0.286	17.6074
0.140	74.529	2109.978	0.087	0.145	670.364	-0.286	17.6155
0.210	74.529	2110.618	0.092	0.353	674.271	-0.286	17.6155
0.280	74.529	2109.721	0.119	0.895	738.004	-0.273	17.6074
0.350	74.529	2109.466	0.397	1.679	1165.576	-0.286	17.6074
0.420	74.529	2109.084	1.251	2.402	1614.253	-0.299	17.6074
0.490	74.529	2109.467	2.391	3.153	1848.161	-0.286	17.6155
0.560	74.529	2110.489	3.158	3.700	1931.904	-0.299	17.6155
0.630	75.078	2109.593	3.560	3.928	1975.536	-0.273	17.6074
0.700	74.529	2109.466	3.892	3.917	1993.272	-0.286	17.6074
0.770	74.529	2108.829	4.059	3.764	2020.081	-0.299	34.8961
0.840	74.529	2109.466	4.118	3.639	2040.902	-0.286	34.9122
0.910	74.529	2109.848	4.115	3.597	2072.612	-0.299	34.9284
0.980	75.078	2109.336	4.094	3.625	2073.257	-0.286	34.9243
1.050	74.529	2108.825	4.067	3.681	2073.257	-0.299	34.9284
1.120	74.529	2108.187	4.065	3.722	2098.989	-0.299	34.9243
1.190	74.529	2108.826	4.075	3.764	2109.885	-0.299	34.9324
1.260	74.529	2109.464	4.086	3.792	2111.805	-0.312	34.9324
1.330	74.529	2109.209	4.088	3.809	2111.805	-0.286	34.9243
1.400	74.529	2107.673	4.086	3.820	2127.779	-0.299	34.9243
1.470	74.529	2107.289	4.083	3.839	2123.950	-0.299	34.9243
1.540	74.529	2107.417	4.078	3.847	2129.693	-0.299	34.9324
1.610	74.529	2108.311	4.086	3.861	2141.796	-0.299	34.9324
1.680	74.529	2107.673	4.094	3.867	2156.409	-0.286	34.9243
1.750	75.078	2106.903	4.102	3.875	2167.183	-0.286	34.9243
1.820	74.529	2107.161	4.094	3.889	2152.600	-0.299	34.9243

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.5036E C6	4.5829E 05	0.305	5.07	1172.1	0.12437E 07	0.3048	1.000	RUN NO. 66
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.5829E C5	4.5829E 05	1.000	74.53	2109.8	534.82	1.0000	1.000

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.244	C.0531	0.0531	0.0604	0.C637	39	208	0.247	0.0527	0.0527	0.0600	0.0632
2	2	0.244	C.0536	0.0536	0.0610	0.0643	40	210	0.247	0.0398	0.0398	0.0453	0.0478
3	3	0.244	0.0523	0.0523	0.0596	0.0628	41	211	0.245	0.0305	0.0305	0.0347	0.0366
4	4	0.244	0.0535	0.0535	0.0609	0.0642	42	212	0.245	0.0209	0.0209	0.0238	0.0251
5	5	0.245	C.0523	0.0523	0.0596	C.0628	43	213	0.274	0.0000	0.0000	0.0000	0.0000
6	6	0.245	C.0530	0.0530	0.0604	0.0637	44	214	0.273	0.0001	0.0001	0.0001	0.0001
7	7	0.245	0.0541	0.0541	0.0617	0.0650	45	215	0.244	0.0007	0.0007	0.0008	0.0009
8	8	0.245	C.0536	0.0536	0.0610	C.0643	46	306	0.274	0.0000	0.0000	0.0000	0.0000
9	9	0.245	C.0539	0.0539	0.0613	0.0646	47	307	0.272	0.0079	0.0079	0.0091	0.0096
10	10	0.245	0.0543	0.0543	0.0619	0.0652	48	308	0.246	0.0390	0.0390	0.0444	0.0468
11	11	0.245	0.0528	0.0528	0.0601	0.0633	49	309	0.245	0.0315	0.0315	0.0359	0.0379
12	12	0.245	C.0531	0.0531	0.0605	C.0637	50	310	0.245	0.0281	0.0281	0.0321	0.0338
13	13	0.246	0.0512	0.0512	0.0583	0.0615	51	311	0.245	0.0219	0.0219	0.0250	0.0263
14	14	0.246	0.0537	0.0537	0.0612	0.0645	52	312	0.244	0.0126	0.0126	0.0144	0.0152
15	15	0.246	0.0532	0.0532	C.0606	0.0638	53	313	0.243	0.0056	0.0056	0.0064	0.0067
16	16	0.246	C.0564	0.0564	0.0642	0.0677	54	314	0.244	0.0042	0.0042	0.0048	0.0051
17	17	0.246	0.0611	0.0611	0.C696	0.0733	55	315	0.244	0.0000	0.0000	0.0000	0.0000
18	18	0.247	C.0627	0.0627	0.0714	0.0753	56	406	0.245	C.0473	0.0473	0.0539	0.0568
19	19	0.247	C.0652	0.0652	0.0742	C.0783	57	407	0.245	0.0467	0.0467	0.0532	0.0561
20	20	0.247	C.0675	0.0675	0.0768	0.0810	58	408	C.244	0.0403	0.0403	0.0459	0.0484
21	21	0.248	0.0703	0.0703	0.0801	0.0844	59	409	0.244	0.0342	0.0342	0.0389	0.0410
22	22	0.247	0.0718	0.0718	0.0818	0.0863	60	410	0.244	0.0287	0.0287	0.0326	0.0344
23	23	0.247	C.0730	0.0730	0.0831	C.0877	61	411	0.244	0.0252	0.0252	C.0287	0.0303
24	24	0.247	0.0763	0.0763	0.0869	0.0916	62	412	0.244	0.0149	0.0149	0.0169	0.0179
25	25	0.247	0.0776	0.0776	0.0884	0.0932	63	413	0.243	0.0087	0.C087	0.0099	0.0104
26	103	0.249	C.0697	0.0697	0.0795	C.0838	64	414	0.243	0.0012	0.0012	0.0014	0.0015
27	105	0.250	C.0681	0.0681	0.0776	0.0819	65	415	C.243	-0.0004	-0.0004	-0.0005	-0.0005
28	107	0.250	0.0655	C.0655	0.0746	0.0787	66	506	0.244	0.0452	0.0452	0.0515	0.0542
29	108	0.249	0.0562	0.0562	0.0640	0.0675	67	507	0.244	0.0434	0.0434	0.0494	0.0521
30	110	0.248	C.0401	0.0401	0.0457	0.0482	68	508	0.244	0.0382	0.0382	0.0435	0.0458
31	111	0.248	0.0320	0.0320	0.0364	0.0384	69	509	0.244	0.0320	0.0320	0.0365	0.0385
32	112	0.247	C.0194	0.0194	0.0221	0.0233	70	510	0.244	0.0281	0.0281	0.0320	0.0337
33	113	C.247	0.0100	0.0100	0.0114	0.C120	71	511	0.244	0.0240	0.0240	0.0273	0.0288
34	114	0.246	C.0020	0.0020	0.0022	C.0024	72	512	0.244	0.0157	0.0157	0.0178	0.0188
35	115	0.245	-0.0002	-0.0002	-0.0003	-0.0003	73	513	0.244	0.0113	0.0113	0.0129	0.0136
36	203	0.247	0.0620	0.0620	0.0707	0.0745	74	514	0.243	0.0023	0.0023	0.0026	0.0027
37	205	0.248	C.0621	0.0621	0.0707	0.0746	75	515	0.243	-0.0001	-0.0001	-0.0002	-0.0002
38	207	0.248	C.0591	0.0591	0.0674	0.0710							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.5036E C6	4.5829E 05	0.305	5.07	1172.1	0.12437E 07	0.3048	1.CC0	RUN NO.	66
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	4.5829E C5	4.5829E 05	1.000	74.53	2109.8	534.82	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	CS(W/CM2)	CS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	302.4	544.3	0.488	0.430	9.192	8.100	2.9470E-04	3.1060E-04	0.053
2	2	302.6	544.7	0.492	0.434	9.190	8.098	2.9732E-04	3.1338E-04	0.046
3	3	302.7	544.9	0.481	0.423	9.189	8.097	2.9034E-04	3.0603E-04	0.064
4	4	302.7	544.9	0.492	0.433	9.189	8.097	2.9705E-04	3.1310E-04	0.063
5	5	302.9	545.2	0.481	0.424	9.187	8.095	2.9059E-04	3.0628E-04	0.039
6	6	302.8	545.1	0.487	0.429	9.188	8.096	2.9449E-04	3.1040E-04	0.047
7	7	303.1	545.5	0.497	0.438	9.186	8.094	3.0059E-04	3.1683E-04	0.063
8	8	303.3	546.0	0.492	0.434	9.183	8.091	2.9749E-04	3.1357E-04	0.072
9	9	303.4	546.2	0.494	0.436	9.182	8.090	2.9898E-04	3.1514E-04	0.070
10	10	303.5	546.3	0.499	0.440	9.181	8.090	3.0172E-04	3.1803E-04	0.076
11	11	303.7	546.6	0.484	0.427	9.179	8.088	2.9297E-04	3.0881E-04	0.068
12	12	303.9	547.0	0.487	0.429	9.177	8.086	2.9471E-04	3.1065E-04	0.053
13	13	304.5	548.0	0.470	0.414	9.171	8.081	2.8429E-04	2.9968E-04	0.041
14	14	304.7	548.4	0.492	0.434	9.169	8.079	2.9819E-04	3.1434E-04	0.043
15	15	304.7	548.5	0.487	0.429	9.168	8.078	2.9517E-04	3.1115E-04	0.083
16	16	304.9	548.9	0.517	0.455	9.166	8.076	3.1303E-04	3.2999E-04	0.126
17	17	305.2	549.3	0.560	0.493	9.163	8.074	3.3903E-04	3.5740E-04	0.160
18	18	305.7	550.3	0.574	0.506	9.158	8.069	3.4816E-04	3.6703E-04	0.173
19	19	306.0	550.7	0.597	0.526	9.155	8.067	3.6189E-04	3.8151E-04	0.202
20	20	306.0	550.9	0.617	0.544	9.154	8.066	3.7453E-04	3.9484E-04	0.216
21	21	306.5	551.7	0.643	0.567	9.149	8.062	3.9024E-04	4.1142E-04	0.228
22	22	306.3	551.3	0.657	0.579	9.152	8.064	3.9882E-04	4.2046E-04	0.234
23	23	306.2	551.2	0.668	0.589	9.152	8.064	4.0526E-04	4.2725E-04	0.238
24	24	306.4	551.4	0.698	0.615	9.151	8.063	4.2346E-04	4.4644E-04	0.246
25	25	305.7	550.2	0.711	0.626	9.158	8.070	4.3103E-04	4.5440E-04	0.247
26	103	309.0	556.1	0.636	0.561	9.124	8.039	3.8730E-04	4.0839E-04	0.235
27	105	309.7	557.5	0.621	0.547	9.115	8.032	3.7826E-04	3.9887E-04	0.228
28	107	309.1	556.5	0.597	0.526	9.122	8.037	3.6374E-04	3.8354E-04	0.210
29	108	308.4	555.1	0.513	0.452	9.130	8.044	3.1203E-04	3.2901E-04	0.106
30	110	307.3	553.2	0.367	0.323	9.141	8.054	2.2279E-04	2.3489E-04	0.145
31	111	306.9	552.3	0.293	0.258	9.146	8.058	1.7760E-04	1.8724E-04	0.289
32	112	306.0	550.8	0.177	0.156	9.155	8.066	1.0758E-04	1.1341E-04	0.573
33	113	305.6	550.1	0.092	0.081	9.159	8.070	5.5653E-05	5.8670E-05	0.778
34	114	304.5	548.1	0.018	0.016	9.170	8.080	1.0884E-05	1.1473E-05	0.884
35	115	303.4	546.1	-0.002	-0.002	9.182	8.091	-1.3471E-06	-1.4200E-06	0.178
36	203	306.3	551.4	0.568	0.500	9.151	8.063	3.4447E-04	3.6316E-04	0.171
37	205	306.7	552.0	0.568	0.500	9.148	8.060	3.4467E-04	3.6338E-04	0.179
38	207	306.6	551.9	0.541	0.477	9.148	8.061	3.2841E-04	3.4623E-04	0.167
39	208	306.1	551.1	0.482	0.425	9.153	8.065	2.9235E-04	3.0821E-04	0.079
40	210	305.4	549.7	0.365	0.321	9.161	8.072	2.2100E-04	2.3297E-04	0.059
41	211	303.4	546.2	0.280	0.247	9.182	8.090	1.6921E-04	1.7836E-04	0.188
42	212	303.7	546.6	0.192	0.169	9.179	8.088	1.1589E-04	1.2216E-04	0.485
43	213	338.7	609.7	0.000	0.000	8.812	7.764	1.4444E-15	1.5262E-15	*******
44	214	338.7	609.6	0.000	0.000	8.812	7.765	3.0112E-07	3.1816E-07	1.265
45	215	302.0	543.6	0.007	0.006	9.196	8.103	3.9917E-06	4.2071E-06	2.018
46	306	338.7	609.7	0.000	0.000	8.812	7.764	1.4456E-07	1.5274E-07	1.109
47	307	337.4	607.4	0.070	0.062	8.825	7.776	4.4155E-05	4.6651E-05	0.219
48	308	304.2	547.5	0.358	0.315	9.174	8.083	2.1644E-04	2.2816E-04	-0.118
49	309	303.8	546.9	0.289	0.255	9.177	8.087	1.7512E-04	1.8460E-04	-0.175
50	310	303.7	546.6	0.258	0.228	9.179	8.088	1.5627E-04	1.6472E-04	-0.077
51	311	303.2	545.7	0.201	0.177	9.184	8.093	1.2169E-04	1.2827E-04	0.090
52	312	302.4	544.3	0.116	0.102	9.192	8.100	7.0168E-05	7.3956E-05	0.554
53	313	301.4	542.4	0.052	0.046	9.203	8.109	3.1161E-05	3.2841E-05	0.942
54	314	302.1	543.8	0.039	0.034	9.196	8.103	2.3425E-05	2.4689E-05	1.373
55	315	301.8	543.3	0.000	0.000	9.199	8.105	1.4454E-07	1.5234E-07	38.396
56	406	303.1	545.6	0.434	0.383	9.185	8.093	2.6255E-04	2.7674E-04	0.020
57	407	302.8	545.0	0.430	0.378	9.188	8.096	2.5951E-04	2.7352E-04	-0.006
58	408	302.8	545.0	0.371	0.327	9.189	8.097	2.2390E-04	2.3599E-04	-0.115
59	409	302.5	544.5	0.314	0.277	9.191	8.099	1.8978E-04	2.0003E-04	-0.173
60	410	302.5	544.5	0.263	0.232	9.192	8.099	1.5907E-04	1.6765E-04	-0.053
61	411	302.3	544.2	0.232	0.204	9.193	8.100	1.4006E-04	1.4762E-04	0.174
62	412	302.0	543.6	0.137	0.121	9.196	8.103	8.2615E-05	8.7073E-05	0.514
63	413	301.5	542.7	0.080	0.070	9.202	8.108	4.8239E-05	5.0840E-05	0.764
64	414	301.0	541.1	0.011	0.010	9.211	8.116	6.9216E-06	7.2944E-06	1.511
65	415	301.0	541.8	-0.004	-0.004	9.207	8.113	-2.4031E-06	-2.5326E-06	-2.487
66	506	302.4	544.4	0.415	0.366	9.192	8.099	2.5091E-04	2.6445E-04	0.005
67	507	302.4	544.2	0.399	0.352	9.193	8.100	2.4108E-04	2.5409E-04	-0.046
68	508	302.3	544.2	0.351	0.309	9.193	8.100	2.1186E-04	2.2329E-04	-0.174
69	509	302.2	543.9	0.295	0.260	9.195	8.102	1.7787E-04	1.8747E-04	-0.212
70	510	301.8	543.2	0.259	0.228	9.199	8.105	1.5607E-04	1.6449E-04	-0.116
71	511	302.2	544.0	0.221	0.195	9.195	8.102	1.3332E-04	1.4051E-04	-0.067
72	512	302.0	543.5	0.144	0.127	9.197	8.104	8.6904E-05	9.1593E-05	0.321
73	513	301.6	542.8	0.104	0.092	9.201	8.107	6.2721E-05	6.6104E-05	0.678
74	514	301.2	542.2	0.021	0.018	9.205	8.111	1.2596E-05	1.3275E-05	1.094
75	515	300.6	541.1	-0.001	-0.001	9.212	8.117	-7.6880E-07	-8.1020E-07	-3.504

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.2775E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	4.090	4.094	3.889
PT2/PTI	5.487E-02	5.493E-02	5.218E-02
TEMP(DEG R)	2115.6	2152.6	2202.5
TT2/TTI	1.0027	1.0203	1.0439

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. PT DATA TEST NO. 182 RUN NO. 67 FRAME 25 TC 52 CONSTANT SET 9:1

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	C 0 8 1	5.10	0.1007E 07	149.36	1997.71	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.361	1998.108	0.159	0.201	695.546	-0.280	17.6011
0.070	149.178	1997.714	0.156	0.201	695.546	-0.280	17.6052
0.140	149.178	1997.714	0.151	0.243	695.546	-0.306	17.6052
0.210	149.361	1997.845	0.156	0.626	700.333	-0.293	17.6132
0.280	149.361	1997.976	0.188	1.819	757.367	-0.293	17.6132
0.350	149.361	1997.976	0.685	3.484	1170.122	-0.280	17.6092
0.420	149.361	1997.583	2.309	4.785	1651.458	-0.280	17.5850
0.490	148.995	1997.452	4.570	6.166	1852.913	-0.293	17.6052
0.560	149.361	1998.107	6.039	7.242	1914.607	-0.306	17.6132
0.630	149.178	1998.107	6.836	7.745	1941.192	-0.319	17.6132
0.700	149.361	1997.976	7.459	7.812	1953.108	-0.293	17.6052
0.770	149.361	1997.452	7.840	7.481	1986.711	-0.306	25.8206
0.840	149.361	1997.452	7.972	7.050	1988.680	-0.293	34.9158
0.910	149.361	1997.714	7.948	6.847	2007.676	-0.306	34.9238
0.980	149.361	1998.237	7.922	6.878	2020.733	-0.306	34.9319
1.050	149.361	1998.630	7.914	6.992	2038.954	-0.293	34.9279
1.120	149.361	1997.583	7.917	7.123	2043.498	-0.293	34.9238
1.190	149.178	1997.976	7.914	7.242	2027.248	-0.306	34.9238
1.260	149.361	1997.714	7.885	7.326	2033.755	-0.319	34.9319
1.330	149.361	1998.499	7.895	7.376	2047.390	-0.306	34.9319
1.400	149.361	1998.760	7.895	7.401	2047.390	-0.293	34.9279
1.470	149.361	1997.974	7.887	7.406	2040.902	-0.293	34.9279
1.540	148.995	1997.844	7.869	7.412	2034.405	-0.306	34.9238
1.610	149.361	1998.106	7.869	7.440	2055.812	-0.306	34.9359
1.680	149.361	1998.367	7.895	7.467	2064.219	-0.306	34.9319
1.750	149.361	1998.759	7.919	7.484	2068.740	-0.293	34.9279
1.820	149.361	1997.974	7.895	7.509	2047.390	-0.293	34.9238
1.890	148.995	1997.713	7.880	7.520	2053.870	-0.306	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.3049E C6	1.0073E 06	0.305	10.16	1109.6	0.11713E 07	0.3048	1.000	RUN NO.	67
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0073E C6	1.0073E 06	1.000	149.36	1997.7	503.70	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.262	0.2142	0.2142	0.2447	0.2583	39	208	0.266	0.0495	0.0495	0.0566	0.0597
2	2	0.262	0.2011	0.2011	0.2297	0.2425	40	210	0.265	0.0385	0.0385	0.0440	0.0465
3	3	0.262	0.1800	0.1800	0.2057	0.2171	41	211	0.262	0.0288	0.0288	0.0328	0.0347
4	4	0.262	0.1685	0.1685	0.1925	0.2032	42	212	0.262	0.0203	0.0203	0.0232	0.0245
5	5	0.262	0.1513	0.1513	0.1729	0.1825	43	213	0.290	-0.0000	-0.0000	-0.0000	-0.0000
6	6	0.262	0.1386	0.1386	0.1584	0.1672	44	214	0.290	0.0000	0.0000	0.0000	0.0000
7	7	0.263	0.1134	0.1134	0.1296	0.1368	45	215	0.260	-0.0007	-0.0007	-0.0007	-0.0008
8	8	0.263	0.0917	0.0917	0.1048	0.1106	46	306	0.290	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.263	0.0790	0.0790	0.0903	0.0953	47	307	0.289	0.0070	0.0070	0.0081	0.0085
10	10	0.263	0.0710	0.0710	0.0811	0.0856	48	308	0.264	0.0390	0.0390	0.0446	0.0471
11	11	0.263	0.0634	0.0634	0.0724	0.0765	49	309	0.263	0.0315	0.0315	0.0360	0.0381
12	12	0.263	0.0601	0.0601	0.0686	0.0725	50	310	0.263	0.0284	0.0284	0.0325	0.0343
13	13	0.264	0.0544	0.0544	0.0622	0.0657	51	311	0.262	0.0236	0.0236	0.0269	0.0284
14	14	0.264	0.0525	0.0525	0.0600	0.0633	52	312	0.261	0.0148	0.0148	0.0169	0.0178
15	15	0.264	0.0494	0.0494	0.0565	0.0596	53	313	0.259	0.0068	0.0068	0.0077	0.0081
16	16	0.264	0.0532	0.0532	0.0609	0.0642	54	314	0.260	0.0008	0.0008	0.0009	0.0009
17	17	0.265	0.0578	0.0578	0.0661	0.0698	55	315	0.260	-0.0003	-0.0003	-0.0004	-0.0004
18	18	0.265	0.0601	0.0601	0.0687	0.0726	56	406	0.263	0.0802	0.0802	0.0916	0.0967
19	19	0.265	0.0622	0.0622	0.0710	0.0750	57	407	0.263	0.0793	0.0793	0.0907	0.0957
20	20	0.265	0.0645	0.0645	0.0737	0.0779	58	408	0.262	0.0690	0.0690	0.0789	0.0833
21	21	0.266	0.0666	0.0666	0.0762	0.0804	59	409	0.262	0.0592	0.0592	0.0677	0.0714
22	22	0.266	0.0683	0.0683	0.0781	0.0825	60	410	0.262	0.0490	0.0490	0.0560	0.0591
23	23	0.266	0.0693	0.0693	0.0793	0.0837	61	411	0.262	0.0415	0.0415	0.0474	0.0500
24	24	0.266	0.0720	0.0720	0.0823	0.0869	62	412	0.261	0.0243	0.0243	0.0278	0.0293
25	25	0.265	0.0732	0.0732	0.0837	0.0884	63	413	0.260	0.0136	0.0136	0.0156	0.0164
26	103	0.269	0.0650	0.0650	0.0743	0.0785	64	414	0.259	0.0023	0.0023	0.0026	0.0027
27	105	0.270	0.0641	0.0641	0.0734	0.0775	65	415	0.259	-0.0004	-0.0004	-0.0005	-0.0005
28	107	0.269	0.0613	0.0613	0.0701	0.0741	66	506	0.263	0.1311	0.1311	0.1498	0.1581
29	108	0.268	0.0525	0.0525	0.0601	0.0634	67	507	0.262	0.1275	0.1275	0.1457	0.1538
30	110	0.267	0.0378	0.0378	0.0433	0.0457	68	508	0.262	0.1188	0.1188	0.1357	0.1433
31	111	0.266	0.0308	0.0308	0.0352	0.0371	69	509	0.262	0.0984	0.0984	0.1124	0.1187
32	112	0.265	0.0193	0.0193	0.0221	0.0233	70	510	0.261	0.0857	0.0857	0.0979	0.1034
33	113	0.264	0.0105	0.0105	0.0120	0.0126	71	511	0.262	0.0771	0.0771	0.0881	0.0930
34	114	0.263	0.0023	0.0023	0.0026	0.0028	72	512	0.261	0.0502	0.0502	0.0573	0.0605
35	115	0.261	0.0002	0.0002	0.0002	0.0002	73	513	0.261	0.0249	0.0249	0.0285	0.0301
36	203	0.266	0.0578	0.0578	0.0661	0.0698	74	514	0.260	0.0052	0.0052	0.0059	0.0063
37	205	0.267	0.0583	0.0583	0.0666	0.0704	75	515	0.259	0.0024	0.0024	0.0027	0.0028
38	207	0.267	0.0552	0.0552	0.0631	0.0667							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.3049E 06	1.0073E 06	0.305	10.16	1109.8	0.11713E 07	0.3048	1.000	RUN NO.	67
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.0073E 06	1.0073E 06	1.000	149.36	1997.7	503.70	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	305.6	550.1	2.564	2.259	11.971	10.548	8.0893E-04	8.5387E-04	0.399
2	2	305.9	550.6	2.406	2.120	11.967	10.544	7.5934E-04	8.0154E-04	0.379
3	3	306.0	550.8	2.154	1.898	11.966	10.543	6.7985E-04	7.1764E-04	0.373
4	4	306.0	550.7	2.016	1.776	11.966	10.544	6.3627E-04	6.7164E-04	0.354
5	5	306.1	551.0	1.810	1.595	11.964	10.542	5.7151E-04	6.0329E-04	0.326
6	6	306.0	550.9	1.659	1.462	11.965	10.543	5.2355E-04	5.5265E-04	0.310
7	7	306.2	551.1	1.357	1.196	11.963	10.541	4.2834E-04	4.5216E-04	0.255
8	8	306.5	551.7	1.097	0.966	11.958	10.537	3.4631E-04	3.6557E-04	0.198
9	9	306.6	551.8	0.945	0.833	11.957	10.536	2.9845E-04	3.1505E-04	0.149
10	10	306.7	552.0	0.848	0.748	11.955	10.534	2.6801E-04	2.8292E-04	0.110
11	11	306.9	552.4	0.757	0.667	11.952	10.531	2.3937E-04	2.5269E-04	0.071
12	12	307.1	552.9	0.718	0.632	11.949	10.528	2.2687E-04	2.3950E-04	0.031
13	13	307.6	553.7	0.650	0.573	11.942	10.522	2.0554E-04	2.1699E-04	-0.013
14	14	307.9	554.1	0.627	0.552	11.938	10.519	1.9831E-04	2.0936E-04	-0.069
15	15	308.0	554.4	0.590	0.520	11.936	10.517	1.8666E-04	1.9706E-04	-0.052
16	16	308.3	554.9	0.635	0.560	11.932	10.514	2.0112E-04	2.1234E-04	0.025
17	17	308.5	555.3	0.690	0.608	11.929	10.511	2.1834E-04	2.3052E-04	0.059
18	18	309.0	556.2	0.717	0.632	11.921	10.504	2.2720E-04	2.3988E-04	0.093
19	19	309.2	556.5	0.741	0.653	11.918	10.502	2.3478E-04	2.4789E-04	0.120
20	20	309.4	557.0	0.768	0.677	11.914	10.498	2.4366E-04	2.5727E-04	0.144
21	21	309.9	557.8	0.794	0.699	11.908	10.493	2.5176E-04	2.6583E-04	0.155
22	22	309.7	557.4	0.814	0.717	11.911	10.495	2.5807E-04	2.7249E-04	0.167
23	23	309.7	557.5	0.826	0.728	11.910	10.495	2.6197E-04	2.7661E-04	0.178
24	24	309.8	557.7	0.857	0.755	11.909	10.493	2.7189E-04	2.8708E-04	0.186
25	25	309.3	556.8	0.872	0.769	11.916	10.500	2.7659E-04	2.9204E-04	0.197
26	103	314.0	565.1	0.770	0.678	11.848	10.439	2.4552E-04	2.5932E-04	0.162
27	105	314.9	566.8	0.759	0.669	11.834	10.428	2.4233E-04	2.5597E-04	0.155
28	107	313.9	565.0	0.726	0.640	11.849	10.440	2.3165E-04	2.4467E-04	0.131
29	108	312.8	562.7	0.623	0.549	11.867	10.457	1.9840E-04	2.0951E-04	0.021
30	110	311.0	559.8	0.450	0.396	11.891	10.478	1.4292E-04	1.5092E-04	0.045
31	111	310.2	558.4	0.366	0.323	11.903	10.488	1.1623E-04	1.2273E-04	0.200
32	112	308.9	556.1	0.230	0.203	11.922	10.505	7.2989E-05	7.7064E-05	0.488
33	113	307.9	554.3	0.125	0.110	11.937	10.518	3.9592E-05	4.1799E-05	0.695
34	114	306.3	551.4	0.028	0.024	11.961	10.539	8.7291E-06	9.2146E-06	0.715
35	115	304.9	548.8	0.002	0.002	11.982	10.558	7.5186E-07	7.9359E-07	0.037
36	203	310.7	559.3	0.688	0.606	11.895	10.481	2.1845E-04	2.3068E-04	0.095
37	205	311.3	560.4	0.693	0.610	11.886	10.474	2.2013E-04	2.3246E-04	0.107
38	207	310.9	559.6	0.657	0.579	11.894	10.480	2.0858E-04	2.2025E-04	0.082
39	208	310.1	558.1	0.589	0.519	11.905	10.490	1.8693E-04	1.9738E-04	-0.005
40	210	308.9	556.0	0.459	0.405	11.923	10.506	1.4552E-04	1.5364E-04	-0.025
41	211	305.9	550.6	0.344	0.303	11.967	10.545	1.0858E-04	1.1461E-04	0.076
42	212	306.1	550.9	0.243	0.214	11.964	10.542	7.6625E-05	8.0885E-05	0.410
43	213	338.7	609.7	-0.000	-0.000	11.482	10.117	-2.6339E-16	-2.7873E-16	*******
44	214	338.7	609.6	0.000	0.000	11.483	10.118	7.8490E-08	8.3062E-08	0.897
45	215	303.4	546.2	-0.008	-0.007	12.004	10.577	-2.4787E-06	-2.6160E-06	0.240
46	306	338.7	609.7	-0.000	-0.000	11.482	10.117	-1.5133E-07	-1.6015E-07	1.077
47	307	337.0	606.5	0.081	0.071	11.508	10.140	2.6582E-05	2.8127E-05	-0.282
48	308	307.5	553.4	0.466	0.411	11.944	10.524	1.4740E-04	1.5561E-04	-0.206
49	309	306.8	552.3	0.377	0.332	11.953	10.532	1.1914E-04	1.2577E-04	-0.288
50	310	306.5	551.7	0.340	0.300	11.958	10.537	1.0742E-04	1.1339E-04	-0.182
51	311	305.8	550.4	0.282	0.249	11.969	10.546	8.9077E-05	9.4027E-05	0.050
52	312	304.5	548.1	0.177	0.156	11.987	10.563	5.5769E-05	5.8863E-05	0.513
53	313	302.6	544.8	0.081	0.072	12.015	10.587	2.5506E-05	2.6917E-05	0.947
54	314	303.5	546.3	0.009	0.008	12.003	10.576	2.8790E-06	3.0385E-06	3.483
55	315	303.2	545.7	-0.004	-0.003	12.007	10.580	-1.2264E-06	-1.2943E-06	-3.594
56	406	306.8	552.3	0.958	0.844	11.953	10.532	3.0272E-04	3.1957E-04	0.171
57	407	306.5	551.6	0.949	0.836	11.959	10.537	2.9967E-04	3.1634E-04	0.154
58	408	306.0	550.7	0.826	0.728	11.966	10.544	2.6074E-04	2.7524E-04	0.059
59	409	305.5	550.0	0.709	0.625	11.972	10.549	2.2368E-04	2.3611E-04	-0.008
60	410	305.4	549.7	0.587	0.518	11.975	10.551	1.8522E-04	1.9550E-04	0.056
61	411	305.0	549.1	0.497	0.438	11.980	10.556	1.5666E-04	1.6535E-04	0.204
62	412	304.4	547.9	0.292	0.257	11.989	10.564	9.1881E-05	9.6977E-05	0.533
63	413	303.7	546.7	0.163	0.144	11.999	10.573	5.1433E-05	5.4283E-05	0.734
64	414	302.3	544.2	0.027	0.024	12.020	10.591	8.6081E-06	9.0841E-06	1.334
65	415	302.5	544.5	-0.005	-0.005	12.017	10.589	-1.6267E-06	-1.7167E-06	-2.977
66	506	306.2	551.1	1.568	1.382	11.963	10.541	4.9502E-04	5.2254E-04	0.285
67	507	306.1	550.9	1.525	1.344	11.965	10.542	4.8151E-04	5.0828E-04	0.265
68	508	305.8	550.4	1.422	1.253	11.969	10.546	4.4873E-04	4.7366E-04	0.218
69	509	305.5	549.8	1.178	1.038	11.974	10.550	3.7158E-04	3.9222E-04	0.135
70	510	305.0	549.0	1.027	0.905	11.981	10.557	3.2373E-04	3.4170E-04	0.166
71	511	305.2	549.3	0.924	0.814	11.977	10.554	2.9132E-04	3.0749E-04	0.230
72	512	304.7	548.4	0.801	0.530	11.985	10.561	1.8947E-04	1.9998E-04	0.517
73	513	304.3	547.7	0.299	0.264	11.991	10.566	9.4201E-05	9.9425E-05	0.627
74	514	303.3	546.0	0.062	0.055	12.005	10.578	1.9606E-05	2.0692E-05	0.994
75	515	302.5	544.5	0.028	0.025	12.017	10.589	8.8835E-06	9.3749E-06	1.624

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6663E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.758	7.880	7.520
PT2/PT1	5.194E-02	5.275E-02	5.035E-02
TEMP(DEG R)	2031.2	2053.9	2105.4
TT2/TT1	1.0167	1.0281	1.0539

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 68 FRAME 26 TO 52 CONSTANT SET 312

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1959E 07	302.99	2048.53	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	302.993	2047.870	0.296	0.418	758.282	-0.286	17.6034
0.070	302.993	2048.001	0.293	0.429	759.197	-0.299	17.6074
0.140	302.993	2047.872	0.293	0.546	761.938	-0.299	17.6155
0.210	302.810	2049.557	0.304	1.407	776.466	-0.299	17.6115
0.280	302.993	2048.390	0.383	3.951	859.096	-0.299	17.6074
0.350	302.993	2048.002	1.392	7.206	1361.754	-0.299	17.6074
0.420	302.993	2047.872	5.021	9.941	1784.991	-0.312	17.5913
0.490	302.810	2047.744	9.663	12.887	1945.829	-0.312	17.6115
0.560	302.993	2047.872	12.713	14.997	2018.124	-0.312	17.6074
0.630	303.176	2048.263	14.511	15.876	2060.341	-0.299	17.5994
0.700	303.176	2047.744	15.705	15.834	2105.401	-0.299	17.5792
0.770	302.993	2047.487	16.284	15.267	2117.562	-0.325	34.8880
0.840	303.176	2047.487	16.369	14.767	2123.950	-0.312	34.9203
0.910	302.993	2048.525	16.237	14.650	2118.201	-0.312	34.9042
0.980	303.176	2048.263	16.123	14.825	2139.250	-0.299	34.9243
1.050	303.176	2047.744	16.059	15.056	2141.796	-0.312	34.9203
1.120	303.176	2047.358	16.046	15.250	2141.796	-0.312	34.9243
1.190	303.176	2048.003	16.073	15.434	2143.704	-0.325	34.9284
1.260	303.176	2048.392	16.080	15.528	2143.068	-0.325	34.9243
1.330	303.176	2048.780	16.086	15.631	2150.060	-0.299	34.9243
1.400	303.176	2048.132	16.086	15.712	2151.965	-0.299	34.9243
1.470	303.176	2048.003	16.073	15.751	2142.432	-0.312	34.9203
1.540	303.176	2048.262	16.059	15.767	2159.580	-0.325	34.9284
1.610	303.176	2048.654	16.075	15.806	2169.082	-0.325	34.9284
1.680	303.176	2048.520	16.073	15.845	2160.214	-0.299	34.9284
1.750	303.176	2048.525	16.067	15.862	2169.082	-0.299	34.9243
1.820	303.176	2047.749	16.083	15.884	2152.600	-0.312	34.9203

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.4261E 06	1.9587E 06	0.305	20.61	1138.1	0.12040E 07	0.3048	1.000	RUN NO.	68
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	HAW/HT		
5.10	1.9587E 06	1.9587E 06	1.000	302.99	2048.5	517.77	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.260	0.3162	0.3162	0.3610	0.3810	39	208	0.265	0.0471	0.0471	0.0538	0.0568
2	2	0.260	0.3204	0.3204	0.3659	0.3862	40	210	0.263	0.0363	0.0363	0.0415	0.0438
3	3	0.260	0.3135	0.3135	0.3580	0.3779	41	211	0.258	0.0279	0.0279	0.0319	0.0336
4	4	0.260	0.3229	0.3229	0.3688	0.3892	42	212	0.259	0.0208	0.0208	0.0238	0.0251
5	5	0.261	0.3218	0.3218	0.3675	0.3879	43	213	0.283	0.0000	0.0000	0.0000	0.0000
6	6	0.260	0.3254	0.3254	0.3717	0.3922	44	214	0.282	0.0000	0.0000	0.0001	0.0001
7	7	0.260	0.3347	0.3347	0.3823	0.4035	45	215	0.255	-0.0008	-0.0008	-0.0009	-0.0010
8	8	0.261	0.3356	0.3356	0.3833	0.4045	46	306	0.283	0.0000	0.0000	0.0001	0.0001
9	9	0.261	0.3335	0.3335	0.3809	0.4020	47	307	0.284	0.0108	0.0108	0.0124	0.0131
10	10	0.261	0.3144	0.3144	0.3591	0.3791	48	308	0.261	0.0992	0.0992	0.1134	0.1197
11	11	0.261	0.2645	0.2645	0.3021	0.3189	49	309	0.260	0.0880	0.0880	0.1005	0.1061
12	12	0.262	0.2045	0.2045	0.2337	0.2466	50	310	0.260	0.0822	0.0822	0.0939	0.0991
13	13	0.262	0.1396	0.1396	0.1595	0.1684	51	311	0.259	0.0726	0.0726	0.0829	0.0875
14	14	0.262	0.1016	0.1016	0.1161	0.1225	52	312	0.257	0.0436	0.0436	0.0498	0.0525
15	15	0.262	0.0738	0.0738	0.0843	0.0890	53	313	0.254	0.0250	0.0250	0.0285	0.0301
16	16	0.263	0.0636	0.0636	0.0727	0.0767	54	314	0.255	0.0057	0.0057	0.0065	0.0069
17	17	0.263	0.0616	0.0616	0.0704	0.0743	55	315	0.254	-0.0005	-0.0005	-0.0006	-0.0006
18	18	0.264	0.0596	0.0596	0.0681	0.0718	56	406	0.261	0.2984	0.2984	0.3409	0.3598
19	19	0.264	0.0591	0.0591	0.0676	0.0713	57	407	0.260	0.2939	0.2939	0.3356	0.3542
20	20	0.264	0.0600	0.0600	0.0686	0.0724	58	408	0.260	0.2695	0.2695	0.3077	0.3247
21	21	0.265	0.0602	0.0602	0.0688	0.0727	59	409	0.259	0.2477	0.2477	0.2828	0.2984
22	22	0.265	0.0617	0.0617	0.0705	0.0744	60	410	0.259	0.2163	0.2163	0.2470	0.2606
23	23	0.265	0.0624	0.0624	0.0714	0.0754	61	411	0.258	0.1892	0.1892	0.2159	0.2279
24	24	0.265	0.0646	0.0646	0.0738	0.0780	62	412	0.257	0.1253	0.1253	0.1430	0.1509
25	25	0.264	0.0653	0.0653	0.0746	0.0787	63	413	0.256	0.0787	0.0787	0.0898	0.0947
26	103	0.270	0.0579	0.0579	0.0662	0.0700	64	414	0.254	0.0206	0.0206	0.0235	0.0248
27	105	0.271	0.0670	0.0570	0.0652	0.0689	65	415	0.254	0.0023	0.0023	0.0027	0.0028
28	107	0.270	0.0538	0.0538	0.0616	0.0651	66	506	0.260	0.2842	0.2842	0.3246	0.3426
29	108	0.268	0.0458	0.0458	0.0524	0.0553	67	507	0.260	0.2733	0.2733	0.3121	0.3294
30	110	0.266	0.0330	0.0330	0.0378	0.0399	68	508	0.260	0.2637	0.2637	0.3011	0.3178
31	111	0.265	0.0271	0.0271	0.0310	0.0327	69	509	0.259	0.2344	0.2344	0.2677	0.2825
32	112	0.263	0.0184	0.0184	0.0210	0.0222	70	510	0.258	0.2122	0.2122	0.2422	0.2556
33	113	0.262	0.0096	0.0096	0.0110	0.0116	71	511	0.259	0.1976	0.1976	0.2256	0.2381
34	114	0.259	0.0022	0.0022	0.0025	0.0027	72	512	0.258	0.1469	0.1469	0.1676	0.1769
35	115	0.257	-0.0002	-0.0002	-0.0002	-0.0002	73	513	0.257	0.1002	0.1002	0.1143	0.1206
36	203	0.266	0.0557	0.0557	0.0636	0.0672	74	514	0.255	0.0279	0.0279	0.0319	0.0336
37	205	0.267	0.0558	0.0558	0.0638	0.0673	75	515	0.254	0.0053	0.0053	0.0061	0.0064
38	207	0.266	0.0530	0.0530	0.0606	0.0640							

NATIONAL AERONALTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.4261E C6	1.9587E C6 0.305	20.61	1138.1	0.1204CE 07	0.3048	1.CC0	RUN NO.	68
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9587E 06	1.9587E 06 1.CC0	302.99	2048.5	517.77	1.0000	1.000		

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	1	311.4	560.5	5.555	4.895	17.570	15.481	8.5333E-04	9.0056E-04	0.363
2	2	312.0	561.6	5.626	4.957	17.557	15.471	8.6486E-04	9.1277E-04	0.356
3	3	312.C	561.6	5.504	4.850	17.557	15.470	8.4621E-04	8.9309E-04	0.363
4	4	312.0	561.6	5.670	4.996	17.557	15.470	8.7164E-04	9.1993E-04	0.360
5	5	312.3	562.2	5.648	4.976	17.550	15.464	8.6863E-04	9.1678E-04	0.354
6	6	312.C	561.7	5.713	5.034	17.556	15.470	8.7839E-04	9.2706E-04	0.355
7	7	312.2	562.0	5.875	5.177	17.553	15.466	9.0351E-04	9.5357E-04	0.358
8	8	312.8	563.0	5.886	5.187	17.541	15.456	9.0581E-04	9.5604E-04	0.368
9	9	312.7	562.9	5.850	5.154	17.541	15.456	9.0014E-04	9.5C05E-04	0.376
10	1C	312.9	563.3	5.514	4.859	17.537	15.453	8.4873E-04	8.9581E-04	0.376
11	11	313.1	563.6	4.637	4.086	17.533	15.449	7.1391E-04	7.5352E-04	0.363
12	12	313.5	564.3	3.585	3.159	17.526	15.442	5.5216E-04	5.8281E-04	0.320
13	13	314.3	565.7	2.445	2.154	17.509	15.427	3.7696E-04	3.9790E-04	0.255
14	14	314.7	566.4	1.778	1.567	17.501	15.421	2.7433E-04	2.8958E-04	0.147
15	15	314.6	566.3	1.291	1.138	17.502	15.422	1.9914E-04	2.1021E-04	0.061
16	16	315.0	566.9	1.113	0.980	17.495	15.415	1.7170E-04	1.8125E-04	0.006
17	17	315.3	567.6	1.077	0.949	17.486	15.408	1.6624E-04	1.7549E-04	-0.006
18	18	316.2	569.1	1.040	0.917	17.469	15.392	1.6080E-04	1.6976E-04	-0.017
19	19	316.4	569.6	1.033	0.910	17.464	15.388	1.5966E-04	1.6856E-04	-0.006
20	2C	316.8	570.3	1.048	0.923	17.455	15.381	1.6208E-04	1.7111E-04	0.005
21	21	317.6	571.7	1.050	0.925	17.438	15.365	1.6261E-04	1.7169E-04	0.003
22	22	317.3	571.1	1.076	0.948	17.446	15.372	1.6649E-04	1.7578E-04	0.014
23	23	317.3	571.2	1.089	0.960	17.445	15.371	1.6861E-04	1.7802E-04	0.024
24	24	317.8	571.7	1.126	0.993	17.439	15.366	1.7443E-04	1.8417E-04	0.042
25	25	316.8	570.3	1.139	1.004	17.455	15.380	1.7621E-04	1.8604E-04	0.044
26	103	324.0	583.2	1.002	0.883	17.304	15.247	1.5641E-04	1.6522E-04	-0.009
27	105	325.5	585.9	0.984	0.867	17.273	15.220	1.5402E-04	1.6271E-04	-0.010
28	107	323.8	582.9	0.932	0.821	17.307	15.250	1.4543E-04	1.5362E-04	-0.035
29	108	321.6	578.9	0.795	0.700	17.354	15.292	1.2369E-04	1.3063E-04	-0.181
30	110	318.9	574.1	0.575	0.507	17.411	15.341	9.9250E-05	9.4241E-05	-0.213
31	111	317.8	571.8	0.473	0.417	17.438	15.365	7.7278E-05	7.7368E-05	-0.068
32	112	315.5	568.0	0.321	0.283	17.483	15.404	4.9608E-05	5.2369E-05	0.301
33	113	313.6	564.4	0.169	0.149	17.524	15.441	2.5971E-05	2.7413E-05	0.659
34	114	311.C	559.8	C.039	C.034	17.579	15.489	5.9560E-06	6.2855E-06	1.199
35	115	308.5	555.2	-0.003	-0.003	17.632	15.536	-4.8533E-07	-5.1209E-07	-4.573
36	203	318.9	574.0	0.969	0.854	17.412	15.342	1.5032E-04	1.5873E-04	-0.030
37	205	319.9	575.8	0.970	0.854	17.391	15.324	1.5059E-04	1.590[illegible]-04	-0.027
38	207	319.C	574.1	0.923	0.813	17.410	15.341	1.4313E-04	1.51[illegible]-04	-0.035
39	208	317.5	571.4	0.821	0.723	17.442	15.369	1.2706E-04	1.341[illegible]-04	-0.172
40	210	315.4	567.7	0.636	0.560	17.486	15.407	9.8130E-05	1.0359E-04	-0.306
41	211	309.8	557.6	0.492	0.433	17.605	15.512	7.5366E-05	7.9529E-05	-0.155
42	212	310.2	558.3	0.367	0.323	17.596	15.504	5.6224E-05	5.9331E-05	0.221
43	213	338.7	609.7	0.000	0.CC0	16.994	14.974	3.3310E-16	3.5225E-16	*******
44	214	338.6	609.5	0.001	C.001	16.997	14.976	1.2660E-07	1.3388E-07	1.067
45	215	305.6	550.1	-0.014	-0.013	17.692	15.589	-2.1813E-06	-2.3011E-06	-0.865
46	306	338.7	609.7	0.001	0.001	16.994	14.974	1.2169E-07	1.2869E-07	1.887
47	307	339.9	611.8	0.183	C.161	16.970	14.953	2.9168E-05	3.0847E-05	0.557
48	308	313.4	564.1	1.740	1.533	17.528	15.445	2.6791E-04	2.8278E-04	0.030
49	309	312.1	561.8	1.545	1.362	17.555	15.468	2.3759E-04	2.5075E-04	-0.031
50	310	311.4	560.5	1.444	1.273	17.570	15.481	2.2185E-04	2.3413E-04	0.027
51	311	310.1	558.1	1.278	1.126	17.598	15.506	1.9603E-04	2.0686E-04	0.197
52	312	307.8	554.1	0.770	0.678	17.646	15.548	1.1774E-04	1.2423E-04	0.488
53	313	304.C	547.2	0.444	0.391	17.726	15.619	6.7511E-05	7.1210E-05	0.702
54	314	305.2	549.4	0.101	C.089	17.701	15.597	1.5356E-05	1.6199E-05	1.306
55	315	304.9	548.9	-0.009	-0.008	17.706	15.602	-1.4231E-08	-1.5011E-06	-3.949
56	4C6	312.7	562.8	5.235	4.613	17.543	15.458	8.0556E-04	8.5023E-04	0.317
57	4C7	311.9	561.5	5.160	4.546	17.558	15.471	7.9318E-04	8.3712E-04	0.310
58	4C8	311.2	560.1	4.736	4.173	17.575	15.486	7.2728E-04	7.6753E-04	0.266
59	4C9	310.4	558.7	4.357	3.839	17.591	15.500	6.6843E-04	7.0538E-04	0.229
60	410	310.C	558.0	3.807	3.355	17.599	15.507	5.8383E-04	6.1608E-04	0.219
61	411	309.3	556.8	3.332	2.936	17.613	15.520	5.1048E-04	5.3866E-04	0.259
62	412	308.C	554.3	2.211	1.948	17.642	15.545	3.3812E-04	3.5674E-04	0.469
63	413	306.7	552.0	1.391	1.225	17.670	15.570	2.1234E-04	2.2402E-04	0.646
64	414	304.2	547.5	0.365	0.322	17.723	15.616	5.5600E-05	5.8648E-05	1.038
65	415	304.7	548.4	0.042	C.037	17.712	15.607	6.3280E-06	6.6751E-06	1.921
66	5C6	311.8	561.3	4.991	4.398	17.561	15.474	7.6714E-04	8.0963E-04	0.299
67	507	311.7	561.1	4.801	4.230	17.563	15.475	7.3775E-04	7.7861E-04	0.283
68	508	311.1	560.0	4.635	4.084	17.576	15.487	7.1180E-04	7.5118E-04	0.261
69	5C9	310.5	559.0	4.123	3.633	17.588	15.497	6.3267E-04	6.6765E-04	0.206
70	510	309.8	557.6	3.735	3.291	17.604	15.511	5.7255E-04	6.0418E-04	0.193
71	511	310.1	558.1	3.478	3.064	17.598	15.506	5.3330E-04	5.6276E-04	0.208
72	512	309.C	556.1	2.588	2.280	17.621	15.527	3.9628E-04	4.1814E-04	0.363
73	513	308.C	554.3	1.767	1.557	17.643	15.546	2.7029E-04	2.8518E-04	0.553
74	514	306.2	551.2	0.494	0.435	17.679	15.577	7.5312E-05	7.9452E-05	0.879
75	515	304.6	548.3	0.094	C.083	17.713	15.608	1.4350E-05	1.5137E-05	1.860

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3117E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.479	16.083	15.884
PT2/PT1	5.439E-02	5.308E-02	5.242E-02
TEMP(DEG R)	2111.8	2152.6	2203.2
TT2/TT1	1.0309	1.0508	1.0755

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

3.5 FT. HT DATA TEST NO. 182 RUN NO. 69 FRAME 26 TO 52 CONSTANT SET 312

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	3	0	8	1	5.10	C.1967E 07	301.22	2036.05	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	F1	STING ANG	IN POS
0.000	301.404	2036.317	0.291	0.386	734.284	-0.280	17.6092
0.070	301.221	2036.581	0.288	0.405	737.075	-0.306	17.6092
0.140	301.404	2036.970	0.288	0.553	737.075	-0.293	17.6132
0.210	301.404	2037.098	0.294	1.631	752.781	-0.306	17.6132
0.280	301.404	2036.445	0.405	4.581	881.229	-0.293	17.5971
0.350	301.404	2035.926	1.831	7.762	1456.807	-0.293	17.5971
0.420	301.221	2035.533	5.912	10.470	1837.370	-0.319	17.6011
0.490	301.221	2035.791	10.443	13.306	1961.695	-0.306	17.5971
0.560	301.404	2036.444	13.061	15.166	2023.991	-0.306	17.6011
0.630	301.404	2035.791	14.558	15.813	2077.125	-0.293	17.5971
0.700	301.404	2035.532	15.630	15.672	2086.140	-0.293	17.5850
0.770	301.404	2035.274	16.133	15.079	2109.885	-0.319	34.8996
0.840	301.404	2035.663	16.210	14.546	2113.725	-0.293	34.9077
0.910	301.221	2036.051	16.102	14.423	2118.201	-0.306	34.9238
0.980	301.404	2035.791	15.950	14.607	2118.201	-0.293	34.9198
1.050	301.404	2035.148	15.916	14.868	2123.950	-0.306	34.9279
1.120	301.404	2035.404	15.919	15.088	2127.141	-0.319	34.9279
1.190	301.404	2035.017	15.922	15.224	2122.673	-0.319	34.9319
1.260	301.404	2035.537	15.922	15.341	2134.792	-0.319	34.9279
1.330	301.404	2035.793	15.943	15.416	2123.950	-0.293	34.9198
1.400	301.404	2034.888	15.937	15.488	2134.155	-0.306	34.9279
1.470	301.221	2035.017	15.922	15.527	2127.779	-0.319	34.9238
1.540	301.404	2035.147	15.940	15.533	2127.141	-0.306	34.9319
1.610	301.404	2035.672	15.959	15.535	2130.968	-0.306	34.9319
1.680	301.404	2035.542	15.964	15.560	2130.968	-0.306	34.9238
1.750	301.404	2035.019	15.948	15.599	2129.055	-0.293	34.9279
1.820	301.404	2034.500	15.961	15.647	2143.068	-0.319	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.4548E 06	1.9674E 06	0.305	20.49	1131.1	0.11460E 07	0.3048	1.CCC	RUN NO. 69
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG K)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9674E 06	1.9674E 06	1.000	301.22	2036.1	514.31	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.264	0.3192	0.3192	0.3648	0.3851	39	208	0.268	0.0490	0.0490	0.0560	0.0592
2	2	0.264	0.3239	0.3239	0.3702	0.3908	40	210	0.266	0.0398	0.0398	0.0455	0.0480
3	3	0.264	0.3160	0.3160	0.3612	0.3814	41	211	0.262	0.0278	0.0278	0.0318	0.0335
4	4	0.264	0.3258	0.3258	0.3724	0.3931	42	212	0.262	0.0204	0.0204	0.0233	0.0246
5	5	0.264	0.3233	0.3233	0.3695	0.3901	43	213	0.284	0.0000	0.0000	0.0000	0.0000
6	6	0.264	0.3276	0.3276	0.3744	0.3953	44	214	0.284	0.0000	0.0000	0.0000	0.0000
7	7	0.264	0.3356	0.3356	0.3836	0.4050	45	215	0.258	-0.0004	-0.0004	-0.0005	-0.0005
8	8	0.265	0.3357	0.3357	0.3837	0.4051	46	306	0.284	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.265	0.3329	0.3329	0.3805	0.4017	47	307	0.286	0.0104	0.0104	0.0120	0.0126
10	10	0.265	0.3165	0.3165	0.3617	0.3819	48	308	0.265	0.1091	0.1091	0.1247	0.1317
11	11	0.265	0.2716	0.2716	0.3104	0.3278	49	309	0.264	0.0943	0.0943	0.1078	0.1138
12	12	0.265	0.2166	0.2166	0.2476	0.2614	50	310	0.264	0.0874	0.0874	0.0999	0.1055
13	13	0.265	0.1501	0.1501	0.1716	0.1812	51	311	0.263	0.0730	0.0730	0.0834	0.0880
14	14	0.266	0.1099	0.1099	0.1257	0.1327	52	312	0.261	0.0445	0.0445	0.0508	0.0536
15	15	0.266	0.0787	0.0787	0.0899	0.0950	53	313	0.258	0.0244	0.0244	0.0279	0.0294
16	16	0.266	0.0662	0.0662	0.0757	0.0799	54	314	0.259	0.0040	0.0040	0.0046	0.0049
17	17	0.266	0.0631	0.0631	0.0721	0.0761	55	315	0.259	-0.0019	-0.0019	-0.0021	-0.0023
18	18	0.266	0.0612	0.0612	0.0699	0.0739	56	406	0.265	0.3005	0.3005	0.3435	0.3627
19	19	0.267	0.0610	0.0610	0.0697	0.0736	57	407	0.264	0.2944	0.2944	0.3365	0.3553
20	20	0.267	0.0620	0.0620	0.0709	0.0749	58	408	0.264	0.2640	0.2640	0.3017	0.3185
21	21	0.268	0.0606	0.0606	0.0693	0.0732	59	409	0.263	0.2362	0.2362	0.2699	0.2849
22	22	0.267	0.0625	0.0625	0.0715	0.0755	60	410	0.263	0.2026	0.2026	0.2315	0.2444
23	23	0.267	0.0637	0.0637	0.0728	0.0769	61	411	0.262	0.1737	0.1737	0.1984	0.2095
24	24	0.268	0.0656	0.0656	0.0750	0.0792	62	412	0.261	0.1078	0.1078	0.1232	0.1300
25	25	0.267	0.0666	0.0666	0.0762	0.0804	63	413	0.260	0.0615	0.0615	0.0703	0.0741
26	103	0.273	0.0592	0.0592	0.0678	0.0717	64	414	0.259	0.0098	0.0098	0.0111	0.0117
27	105	0.274	0.0589	0.0589	0.0674	0.0712	65	415	0.259	-0.0026	-0.0026	-0.0030	-0.0032
28	107	0.273	0.0563	0.0563	0.0644	0.0680	66	506	0.265	0.2855	0.2855	0.3263	0.3445
29	108	0.271	0.0478	0.0478	0.0546	0.0577	67	507	0.265	0.2752	0.2752	0.3146	0.3321
30	110	0.268	0.0343	0.0343	0.0393	0.0415	68	508	0.264	0.2596	0.2596	0.2967	0.3132
31	111	0.267	0.0279	0.0279	0.0319	0.0336	69	509	0.264	0.2221	0.2221	0.2538	0.2679
32	112	0.266	0.0185	0.0185	0.0212	0.0224	70	510	0.263	0.1974	0.1974	0.2255	0.2381
33	113	0.264	0.0075	0.0075	0.0085	0.0090	71	511	0.263	0.1811	0.1811	0.2070	0.2185
34	114	0.262	0.0003	0.0003	0.0004	0.0004	72	512	0.262	0.1245	0.1245	0.1423	0.1502
35	115	0.261	-0.0007	-0.0007	-0.0008	-0.0008	73	513	0.262	0.0791	0.0791	0.0904	0.0954
36	203	0.263	0.0567	0.0567	0.0649	0.0686	74	514	0.260	0.0154	0.0154	0.0175	0.0185
37	205	0.270	0.0578	0.0578	0.0661	0.0699	75	515	0.259	0.0015	0.0015	0.0017	0.0018
38	207	0.269	0.0551	0.0551	0.0630	0.0666							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH 5.10	RE/METER 0.4348E 08	REL 1.9674E 06	LENGTH(METER) 0.305	PT(ATM) 20.49	TT(DEG K) 1131.1	HT(JOULE/KG) 0.11960E 07	RS(METER) 0.3048	MAB/HT 1.000	TEST NO. 182
MACH 5.10	RE/FT 1.9674E 06	REL 1.9674E 06	LENGTH(FT) 1.000	PT(PSI) 301.22	TT(DEG R) 2036.1	HT(BTU/LBM) 514.31	RS(FT) 1.0000	MAB/HT 1.000	RUN NO. 69

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.908)	ST(0.874)	TIME(SEC)
1	1	314.3	565.7	5.522	4.866	17.301	15.244	8.6060E-04	9.0856E-04	0.349
2	2	314.5	566.1	5.602	4.936	17.296	15.240	8.7337E-04	9.2206E-04	0.345
3	3	314.6	566.3	5.466	4.816	17.293	15.238	8.5216E-04	8.9968E-04	0.350
4	4	314.6	566.3	5.634	4.965	17.294	15.238	8.7845E-04	9.2743E-04	0.349
5	5	314.8	566.6	5.589	4.925	17.290	15.235	8.7159E-04	9.2020E-04	0.338
6	6	314.7	566.5	5.665	4.992	17.292	15.236	8.8335E-04	9.3261E-04	0.341
7	7	314.9	566.8	5.602	4.936	17.288	15.233	9.0487E-04	9.5533E-04	0.345
8	8	315.2	567.3	5.801	5.112	17.282	15.228	9.0510E-04	9.5560E-04	0.355
9	9	315.2	567.4	5.753	5.069	17.281	15.227	8.9761E-04	9.4770E-04	0.361
10	10	315.4	567.7	5.468	4.818	17.277	15.223	8.5334E-04	9.0097E-04	0.363
11	11	315.5	567.9	4.692	4.134	17.275	15.222	7.3231E-04	7.7319E-04	0.349
12	12	315.6	568.1	3.741	3.297	17.272	15.219	5.8408E-04	6.1669E-04	0.308
13	13	316.2	569.1	2.591	2.283	17.261	15.210	4.0476E-04	4.2738E-04	0.236
14	14	316.4	569.6	1.897	1.671	17.255	15.204	2.9643E-04	3.1300E-04	0.142
15	15	316.4	569.4	1.358	1.196	17.257	15.206	2.1216E-04	2.2402E-04	0.067
16	16	316.5	569.7	1.143	1.007	17.254	15.203	1.7859E-04	1.8857E-04	0.005
17	17	316.7	570.1	1.088	0.959	17.250	15.199	1.7011E-04	1.7962E-04	-0.008
18	18	317.3	571.1	1.054	0.929	17.238	15.189	1.6458E-04	1.7421E-04	-0.007
19	19	317.8	572.0	1.031	0.926	17.227	15.179	1.6447E-04	1.7368E-04	0.009
20	20	317.9	572.2	1.068	0.941	17.225	15.177	1.6719E-04	1.7656E-04	0.018
21	21	318.6	573.5	1.044	0.920	17.210	15.164	1.6355E-04	1.7272E-04	-0.007
22	22	318.4	573.1	1.076	0.948	17.214	15.168	1.6863E-04	1.7809E-04	0.003
23	23	318.5	573.3	1.096	0.966	17.212	15.166	1.7175E-04	1.8138E-04	0.023
24	24	318.6	573.6	1.128	0.994	17.209	15.163	1.7684E-04	1.8675E-04	0.029
25	25	318.1	572.6	1.147	1.011	17.220	15.173	1.7966E-04	1.8972E-04	0.042
26	103	325.0	585.1	1.011	0.891	17.075	15.045	1.5987E-04	1.6892E-04	-0.001
27	105	326.2	587.2	1.004	0.884	17.049	15.023	1.5890E-04	1.6791E-04	-0.001
28	107	324.6	584.3	0.961	0.847	17.084	15.053	1.5180E-04	1.6039E-04	-0.024
29	108	322.5	580.4	0.818	0.721	17.129	15.093	1.2884E-04	1.3610E-04	-0.162
30	110	319.7	575.4	0.590	0.520	17.187	15.144	9.2584E-05	9.7782E-05	-0.170
31	111	318.4	573.1	0.480	0.423	17.214	15.168	7.5150E-05	7.9362E-05	-0.023
32	112	316.2	569.2	0.320	0.282	17.260	15.208	5.0011E-05	5.2806E-05	0.338
33	113	314.5	566.1	0.129	0.114	17.296	15.240	2.0105E-05	2.1226E-05	0.629
34	114	312.0	561.7	0.005	0.005	17.348	15.286	8.2963E-07	8.7572E-07	3.414
35	115	310.5	558.9	-0.012	-0.010	17.381	15.315	-1.8115E-06	-1.9119E-06	-0.234
36	203	320.6	577.2	0.474	0.858	17.167	15.126	1.5306E-04	1.6166E-04	-0.033
37	205	321.5	578.7	0.491	0.873	17.148	15.110	1.5594E-04	1.6471E-04	-0.009
38	207	320.6	577.0	0.466	0.833	17.169	15.128	1.4862E-04	1.5698E-04	-0.028
39	208	319.2	574.5	0.842	0.742	17.198	15.154	1.3212E-04	1.3953E-04	-0.146
40	210	317.1	570.7	0.685	0.604	17.242	15.193	1.0722E-04	1.1321E-04	-0.125
41	211	311.8	561.2	0.482	0.425	17.353	15.291	7.4546E-05	7.9108E-05	-0.053
42	212	311.8	561.3	0.354	0.312	17.353	15.290	5.4977E-05	5.8030E-05	0.329
43	213	338.7	609.7	0.000	0.000	16.788	14.792	3.1354E-16	3.3162E-16	*******
44	214	338.6	609.5	0.000	0.000	16.790	14.794	6.3942E-08	6.7629E-08	1.955
45	215	307.2	553.0	-0.007	-0.006	17.449	15.375	-1.1032E-06	-1.1641E-06	-4.433
46	306	338.7	609.7	-0.000	-0.000	16.787	14.792	-3.2982E-14	-3.4884E-14	*******
47	307	340.0	612.0	0.175	0.154	16.761	14.769	2.8140E-05	2.9766E-05	0.414
48	308	315.7	568.2	1.885	1.661	17.272	15.219	2.9423E-04	3.1066E-04	0.066
49	309	314.5	566.1	1.631	1.437	17.296	15.240	2.5423E-04	2.6840E-04	0.005
50	310	313.9	565.1	1.513	1.333	17.308	15.251	2.3571E-04	2.4884E-04	0.059
51	311	312.7	562.9	1.265	1.115	17.333	15.273	1.9674E-04	2.0768E-04	0.179
52	312	310.6	559.1	0.773	0.681	17.378	15.312	1.1994E-04	1.2659E-04	0.537
53	313	310.7	559.1	0.427	0.376	17.459	15.384	6.5866E-05	6.9499E-05	0.803
54	314	307.9	554.2	0.070	0.062	17.436	15.363	1.0851E-05	1.1451E-05	1.690
55	315	307.9	554.2	-0.033	-0.029	17.436	15.363	-5.0572E-06	-5.3366E-06	-0.592
56	406	315.3	567.5	5.193	4.576	17.280	15.226	8.1039E-04	8.5561E-04	0.302
57	407	314.6	566.2	5.092	4.487	17.295	15.239	7.9389E-04	8.3815E-04	0.290
58	408	313.9	565.0	4.570	4.027	17.309	15.251	7.1187E-04	7.5152E-04	0.240
59	409	313.0	563.5	4.092	3.606	17.327	15.267	6.3673E-04	6.7215E-04	0.189
60	410	312.9	563.2	3.911	3.094	17.330	15.270	5.4626E-04	5.7664E-04	0.188
61	411	312.4	562.3	3.612	2.654	17.340	15.279	4.6825E-04	4.9428E-04	0.248
62	412	311.2	560.1	1.873	1.650	17.366	15.302	2.9068E-04	3.0681E-04	0.525
63	413	310.1	558.2	1.070	0.942	17.388	15.321	1.6580E-04	1.7499E-04	0.717
64	414	308.1	554.6	0.170	0.150	17.431	15.359	2.6280E-05	2.7733E-05	1.073
65	415	308.5	555.3	-0.046	-0.040	17.422	15.351	-7.0821E-06	-7.4737E-06	-0.367
66	506	313.3	563.6	4.352	4.346	17.279	15.225	7.6974E-04	8.1270E-04	0.279
67	507	313.1	563.2	4.757	4.191	17.283	15.229	7.4213E-04	7.8353E-04	0.264
68	508	314.4	566.0	4.491	3.957	17.297	15.241	6.9998E-04	7.3900E-04	0.234
69	509	313.7	564.9	3.844	3.387	17.310	15.252	5.9870E-04	6.3204E-04	0.163
70	510	313.0	563.4	3.420	3.013	17.328	15.268	5.3210E-04	5.6170E-04	0.152
71	511	313.3	563.9	3.138	2.765	17.322	15.263	4.8835E-04	5.1553E-04	0.178
72	512	312.3	562.2	2.159	1.903	17.342	15.280	3.3569E-04	3.5433E-04	0.396
73	513	311.4	560.6	1.374	1.211	17.361	15.297	2.1331E-04	2.2515E-04	0.643
74	514	309.7	557.5	0.267	0.235	17.396	15.328	4.1385E-05	4.3677E-05	0.996
75	515	308.4	555.1	0.026	0.023	17.425	15.354	3.9553E-06	4.1740E-06	2.365

PRE-STR AM DENSITY-VELOCITY PRODUCT = 4.3061E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.294	15.961	15.647
PT2/PT1	5.409E-02	5.299E-02	5.194E-02
TEMP(DEG R)	2075.2	2143.1	2196.2
TT2/TT1	1.0192	1.0526	1.0787

ORIGINAL PAGE IS
OF POOR QUALITY.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 70 FRAME 25 TO 52 CONSTANT SET 311

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5250E 06	74.49	1946.02	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	75.042	1944.958	0.093	0.095	671.342	-0.280	17.6052
0.070	74.493	1944.958	0.085	0.092	670.364	-0.293	17.6092
0.140	74.493	1945.091	0.085	0.131	672.319	-0.293	17.6092
0.210	74.493	1945.485	0.093	0.362	674.271	-0.306	17.6132
0.280	74.493	1945.750	0.130	0.976	749.102	-0.293	17.6092
0.350	75.042	1945.091	0.469	1.791	1165.576	-0.293	17.6011
0.420	74.493	1944.958	1.471	2.514	1549.155	-0.306	17.6052
0.490	74.493	1945.223	2.566	3.228	1714.809	-0.319	17.6092
0.560	75.042	1945.355	3.204	3.689	1797.282	-0.306	17.6132
0.630	75.042	1945.618	3.619	3.864	1852.238	-0.293	17.6092
0.700	75.042	1945.221	3.886	3.801	1875.802	-0.306	21.5838
0.770	74.493	1944.958	4.023	3.617	1893.905	-0.306	34.8633
0.840	75.042	1945.355	4.058	3.481	1902.597	-0.306	34.9319
0.910	74.493	1946.018	4.042	3.459	1928.582	-0.306	34.9319
0.980	75.042	1945.883	4.021	3.489	1935.887	-0.293	34.9279
1.050	75.225	1945.355	4.005	3.531	1941.192	-0.293	34.9238
1.120	74.493	1945.223	3.997	3.567	1940.529	-0.293	34.9238
1.190	75.042	1945.355	3.997	3.606	1948.477	-0.306	34.9319
1.260	75.225	1946.547	4.008	3.645	1965.654	-0.293	34.9319
1.330	74.493	1946.679	4.016	3.662	1980.140	-0.293	34.9238
1.400	75.042	1945.751	4.018	3.662	1973.561	-0.293	34.9238
1.470	74.493	1945.623	4.016	3.678	1978.167	-0.306	34.9238
1.540	75.042	1946.417	4.016	3.689	1975.536	-0.306	34.9319
1.610	75.042	1946.813	4.010	3.703	1986.054	-0.319	34.9279
1.680	75.042	1946.944	4.010	3.712	1986.054	-0.293	34.9279
1.750	75.225	1945.091	4.008	3.717	1994.583	-0.306	34.9238
1.820	75.042	1945.623	4.016	3.728	2008.329	-0.306	34.9238
1.890	75.042	1945.355	4.023	3.745	2008.329	-0.293	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION, AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7225E 06	5.2503E 05	0.305	5.07	1081.1	0.11382E 07	0.3048	1.000	RUN NO. 70
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.2503E 05	5.2503E 05	1.000	74.49	1946.0	489.45	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.269	0.0579	0.0579	0.0663	0.0700	39	208	0.268	0.0511	0.0511	0.0585	0.0617
2	2	0.269	0.0580	0.0580	0.0663	0.0700	40	210	0.267	0.0365	0.0365	0.0418	0.0441
3	3	0.269	0.0559	0.0559	0.0639	0.0675	41	211	0.266	0.0302	0.0302	0.0345	0.0365
4	4	0.269	0.0567	0.0567	0.0648	0.0685	42	212	0.266	0.0213	0.0213	0.0244	0.0257
5	5	0.269	0.0551	0.0551	0.0630	0.0666	43	213	0.299	0.0000	0.0000	0.0000	0.0000
6	6	0.269	0.0557	0.0557	0.0637	0.0673	44	214	0.299	0.0000	0.0000	0.0000	0.0000
7	7	0.269	0.0550	0.0550	0.0630	0.0665	45	215	0.264	0.0006	0.0006	0.0006	0.0007
8	8	0.269	0.0542	0.0542	0.0620	0.0655	46	306	0.299	-0.0000	-0.0000	-0.0001	-0.0001
9	9	0.269	0.0547	0.0547	0.0625	0.0660	47	307	0.296	0.0156	0.0156	0.0180	0.0190
10	10	0.268	0.0547	0.0547	0.0625	0.0660	48	308	0.268	0.0391	0.0391	0.0448	0.0473
11	11	0.268	0.0540	0.0540	0.0618	0.0652	49	309	0.267	0.0313	0.0313	0.0358	0.0378
12	12	0.268	0.0542	0.0542	0.0620	0.0654	50	310	0.267	0.0283	0.0283	0.0324	0.0342
13	13	0.268	0.0516	0.0516	0.0591	0.0624	51	311	0.267	0.0235	0.0235	0.0269	0.0284
14	14	0.268	0.0523	0.0523	0.0599	0.0632	52	312	0.266	0.0115	0.0115	0.0132	0.0139
15	15	0.268	0.0504	0.0504	0.0576	0.0608	53	313	0.265	0.0070	0.0070	0.0080	0.0085
16	16	0.268	0.0552	0.0552	0.0631	0.0667	54	314	0.266	0.0008	0.0008	0.0009	0.0010
17	17	0.267	0.0588	0.0588	0.0673	0.0711	55	315	0.266	-0.0003	-0.0003	-0.0003	-0.0004
18	18	0.268	0.0616	0.0616	0.0704	0.0744	56	406	0.268	0.0476	0.0476	0.0544	0.0574
19	19	0.268	0.0641	0.0641	0.0733	0.0775	57	407	0.268	0.0465	0.0465	0.0532	0.0562
20	20	0.268	0.0666	0.0666	0.0761	0.0804	58	408	0.268	0.0398	0.0398	0.0456	0.0481
21	21	0.268	0.0691	0.0691	0.0791	0.0835	59	409	0.268	0.0343	0.0343	0.0393	0.0415
22	22	0.268	0.0708	0.0708	0.0810	0.0856	60	410	0.268	0.0284	0.0284	0.0325	0.0343
23	23	0.268	0.0724	0.0724	0.0828	0.0874	61	411	0.268	0.0242	0.0242	0.0276	0.0292
24	24	0.268	0.0756	0.0756	0.0865	0.0913	62	412	0.267	0.0143	0.0143	0.0163	0.0172
25	25	0.268	0.0768	0.0768	0.0879	0.0928	63	413	0.267	0.0081	0.0081	0.0092	0.0097
26	103	0.270	0.0686	0.0686	0.0785	0.0829	64	414	0.266	0.0039	0.0039	0.0044	0.0047
27	105	0.270	0.0673	0.0673	0.0770	0.0813	65	415	0.267	0.0001	0.0001	0.0001	0.0001
28	107	0.270	0.0642	0.0642	0.0734	0.0775	66	506	0.269	0.0461	0.0461	0.0527	0.0557
29	108	0.272	0.0551	0.0551	0.0631	0.0666	67	507	0.269	0.0439	0.0439	0.0503	0.0531
30	110	0.269	0.0395	0.0395	0.0451	0.0477	68	508	0.269	0.0402	0.0402	0.0460	0.0486
31	111	0.268	0.0314	0.0314	0.0359	0.0379	69	509	0.268	0.0330	0.0330	0.0378	0.0399
32	112	0.271	0.0194	0.0194	0.0222	0.0234	70	510	0.271	0.0278	0.0278	0.0318	0.0336
33	113	0.267	0.0094	0.0094	0.0107	0.0113	71	511	0.271	0.0246	0.0246	0.0282	0.0298
34	114	0.266	0.0017	0.0017	0.0019	0.0020	72	512	0.271	0.0156	0.0156	0.0178	0.0188
35	115	0.269	-0.0001	-0.0001	-0.0001	-0.0001	73	513	0.271	0.0104	0.0104	0.0119	0.0125
36	203	0.268	0.0606	0.0606	0.0693	0.0732	74	514	0.271	0.0023	0.0023	0.0026	0.0028
37	205	0.268	0.0608	0.0608	0.0695	0.0734	75	515	0.270	-0.0016	-0.0016	-0.0018	-0.0019
38	207	0.268	0.0578	0.0578	0.0661	0.0698							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.7225E 06	5.2503E 05	0.305	5.07	1081.1	0.11382E 07	0.3048	1.000	RUN NO.	70
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.2503E 05	5.2503E 05	1.000	74.49	1946.0	489.45	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	305.0	549.1	0.471	0.415	8.137	7.170	3.0426E-04	3.2136E-04	C.089
2	2	305.2	549.3	0.472	0.416	8.135	7.168	3.0446E-04	3.2157E-04	C.077
3	3	305.2	549.3	0.454	0.400	8.136	7.169	2.9340E-04	3.0590E-04	C.087
4	4	305.1	549.1	0.461	0.406	8.137	7.169	2.9770E-04	3.1444E-04	C.081
5	5	305.1	549.1	0.448	0.395	8.137	7.169	2.8941E-04	3.0568E-04	C.063
6	6	304.8	548.7	0.453	0.399	8.139	7.171	2.9243E-04	3.0886E-04	C.074
7	7	304.7	548.5	0.448	0.395	8.140	7.173	2.8912E-04	3.0537E-04	C.058
8	8	304.5	548.2	0.441	0.389	8.142	7.174	2.8477E-04	3.0076E-04	C.029
9	9	304.4	547.8	0.445	0.392	8.144	7.176	2.8710E-04	3.0323E-04	C.078
10	10	304.1	547.4	0.445	0.392	8.146	7.178	2.8706E-04	3.0317E-04	C.080
11	11	303.9	547.0	0.440	0.388	8.149	7.180	2.8365E-04	2.9957E-04	C.088
12	12	303.7	546.7	0.442	0.389	8.151	7.182	2.8450E-04	3.0047E-04	C.075
13	13	303.8	546.9	0.421	0.371	8.150	7.181	2.7124E-04	2.8646E-04	C.058
14	14	303.6	546.5	0.427	0.376	8.152	7.183	2.7482E-04	2.9023E-04	C.031
15	15	303.2	545.8	0.411	0.362	8.156	7.186	2.6451E-04	2.7934E-04	C.001
16	16	303.2	545.7	0.450	0.397	8.156	7.187	2.8990E-04	3.0615E-04	C.121
17	17	303.1	545.7	0.486	0.428	8.157	7.187	3.0902E-04	3.2635E-04	C.128
18	18	303.3	546.0	0.502	0.442	8.155	7.185	3.2339E-04	3.4152E-04	C.142
19	19	303.5	546.3	0.523	0.461	8.153	7.184	3.3675E-04	3.5564E-04	C.189
20	20	303.3	545.9	0.543	0.478	8.155	7.186	3.4966E-04	3.6927E-04	C.199
21	21	303.9	547.0	0.563	0.496	8.149	7.180	3.6300E-04	3.8337E-04	C.206
22	22	303.7	546.6	0.577	0.509	8.151	7.182	3.7198E-04	3.9285E-04	C.213
23	23	303.7	546.7	0.590	0.520	8.150	7.182	3.8015E-04	4.0148E-04	C.219
24	24	303.8	546.9	0.616	0.543	8.150	7.181	3.9711E-04	4.1939E-04	C.225
25	25	303.4	546.2	0.626	0.552	8.154	7.185	4.0351E-04	4.2614E-04	C.227
26	103	305.9	550.7	0.558	0.491	8.126	7.162	3.6032E-04	3.8060E-04	C.204
27	105	305.5	549.9	0.547	0.482	8.132	7.165	3.5358E-04	3.7347E-04	-C.012
28	107	305.8	550.5	0.522	0.460	8.129	7.162	3.3704E-04	3.5601E-04	C.107
29	108	308.-	555.8	0.446	0.393	8.098	7.135	2.8952E-04	3.0588E-04	C.773
30	110	304.-	547.9	0.321	0.283	8.144	7.176	2.0730E-04	2.1894E-04	C.130
31	111	303.8	546.9	0.256	0.225	8.149	7.181	1.6489E-04	1.7414E-04	0.258
32	112	306.6	551.9	0.157	0.139	8.121	7.155	1.0183E-04	1.0757E-04	2.674
33	113	302.5	544.5	0.077	0.067	8.163	7.193	4.9242E-05	5.2000E-05	C.753
34	114	301.4	542.5	C.014	0.012	8.175	7.203	8.8572E-06	9.3525E-06	1.119
35	115	300.6	541.1	-0.001	-0.001	8.183	7.211	-5.1142E-07	-5.3998E-07	-1.237
36	203	303.9	547.0	0.494	0.435	8.149	7.180	3.1839E-04	3.3626E-04	C.153
37	205	304.3	547.7	0.495	0.436	8.145	7.177	3.1913E-04	3.3705E-04	C.164
38	207	304.1	547.4	0.470	0.415	8.146	7.178	3.0331E-04	3.2033E-04	0.144
39	208	303.7	546.6	0.417	0.367	8.151	7.182	2.6840E-04	2.8345E-04	C.050
40	210	302.9	545.3	0.298	0.263	8.159	7.189	1.9190E-04	2.0265E-04	-C.038
41	211	301.1	542.0	0.247	0.218	8.178	7.206	1.5866E-04	1.6752E-04	0.187
42	212	301.1	541.9	0.174	0.154	8.178	7.206	1.1189E-04	1.1815E-04	0.503
43	213	338.7	609.7	0.000	0.000	7.786	6.861	1.4383E-15	1.5233E-15	*******
44	214	338.7	609.6	0.000	0.000	7.787	6.861	1.0726E-07	1.1360E-07	0.640
45	215	299.4	539.0	0.005	0.004	8.196	7.221	2.9159E-06	3.0785E-06	1.920
46	306	338.7	609.7	-0.000	-0.000	7.786	6.861	-2.5827E-07	-2.7354E-07	0.973
47	307	335.7	604.2	0.122	0.108	7.818	6.889	8.2236E-05	8.7075E-05	C.093
48	308	303.5	546.2	0.319	0.281	8.153	7.184	2.0550E-04	2.1702E-04	-C.120
49	309	303.1	545.6	0.255	0.225	8.157	7.187	1.6424E-04	1.7345E-04	-0.192
50	310	302.9	545.3	0.231	0.204	8.159	7.189	1.4866E-04	1.5699E-04	-0.077
51	311	302.4	544.3	0.192	0.169	8.164	7.194	1.2357E-04	1.3049E-04	C.157
52	312	301.6	542.9	0.094	0.083	8.173	7.201	6.0478E-05	6.3861E-05	0.386
53	313	300.8	541.5	0.058	0.051	8.181	7.208	3.6911E-05	3.8974E-05	C.916
54	314	301.3	542.4	0.007	0.006	8.176	7.204	4.1978E-06	4.4325E-06	2.380
55	315	301.0	541.8	-0.002	-0.002	8.179	7.207	-1.5869E-06	-1.6756E-06	-1.880
56	406	304.2	547.6	0.387	0.341	8.146	7.177	2.4676E-04	2.6378E-04	0.019
57	407	303.9	547.1	0.379	0.334	8.149	7.180	2.4436E-04	2.5808E-04	-C.015
58	408	303.8	546.9	0.325	0.286	8.149	7.181	2.0925E-04	2.2099E-04	-C.135
59	409	303.6	546.5	0.280	0.247	8.152	7.183	1.8031E-04	1.9042E-04	-0.175
60	410	303.6	546.4	0.231	0.204	8.152	7.183	1.4907E-04	1.5743E-04	-C.076
61	411	303.4	546.2	0.197	0.174	8.153	7.184	1.2686E-04	1.3397E-04	C.104
62	412	303.1	545.6	0.116	0.103	8.157	7.187	7.4578E-05	7.9181E-05	0.464
63	413	302.6	544.8	0.066	0.058	8.162	7.192	4.2286E-05	4.4655E-05	0.654
64	414	301.8	543.2	0.032	0.028	8.171	7.200	2.0436E-05	2.1579E-05	1.381
65	415	302.2	544.0	C.001	0.001	8.166	7.196	4.6127E-07	4.8709E-07	17.086
66	506	304.5	548.1	0.375	0.331	8.143	7.175	2.4210E-04	2.5570E-04	-0.013
67	507	304.5	548.0	0.358	0.315	8.143	7.175	2.3077E-04	2.4373E-04	-0.055
68	508	304.3	547.8	0.327	0.289	8.144	7.176	2.1118E-04	2.2304E-04	-C.137
69	509	304.2	547.5	0.269	0.237	8.146	7.177	1.7355E-04	1.8329E-04	-C.206
70	510	307.4	553.3	0.223	0.198	8.112	7.148	1.4589E-04	1.5411E-04	1.269
71	511	307.6	553.7	0.200	0.176	8.110	7.146	1.2940E-04	1.3670E-04	1.507
72	512	307.4	553.3	0.126	0.111	8.112	7.148	8.1903E-05	8.6523E-05	2.841
73	513	307.1	552.8	0.084	0.074	8.115	7.151	5.4453E-05	5.7523E-05	4.486
74	514	306.7	552.1	0.019	0.016	8.119	7.154	1.2055E-05	1.2734E-05	19.047
75	515	306.1	551.0	-0.013	-0.011	8.126	7.160	-8.4088E-06	-8.8823E-06	-24.589

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3569E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.970	4.023	3.745
PT2/PT1	5.330E-02	5.401E-02	5.027E-02
TEMP(DEG R)	1970.9	2008.3	2051.3
TT2/TT1	1.0128	1.0320	1.0541

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 71 FRAME 25 TO 92 CONSTANT SET 311

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.9279E 06	149.52	2098.44	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.334	2098.952	0.172	0.233	718.360	-0.287	17.6029
0.070	149.334	2098.826	0.172	0.241	718.530	-0.274	17.6065
0.140	149.334	2098.826	0.172	0.341	719.302	-0.300	17.6065
0.210	149.517	2098.956	0.172	0.967	729.621	-0.300	17.6110
0.280	149.517	2099.082	0.262	2.462	913.928	-0.287	17.6110
0.350	149.517	2098.697	1.220	3.988	1503.493	-0.287	17.5747
0.420	149.334	2098.314	3.447	5.497	1835.335	-0.287	17.6029
0.490	149.334	2098.570	5.455	6.940	1951.124	-0.313	17.6110
0.560	149.517	2098.569	6.624	7.777	2034.405	-0.300	17.6150
0.630	149.517	2098.956	7.444	7.994	2082.278	-0.300	17.6110
0.700	149.517	2098.569	7.944	7.774	2114.364	-0.300	34.2978
0.770	149.517	2098.186	8.132	7.413	2141.796	-0.287	34.8144
0.840	149.334	2098.442	8.106	7.218	2137.340	-0.326	34.7740
0.910	149.517	2098.441	8.053	7.210	2167.816	-0.300	34.9031
0.980	149.517	2098.956	8.011	7.313	2184.882	-0.300	34.9274
1.050	149.517	2098.186	7.957	7.441	2187.406	-0.300	34.9233
1.120	149.517	2097.804	7.989	7.541	2188.037	-0.300	34.9274
1.190	149.334	2098.056	7.957	7.624	2198.119	-0.313	34.9314
1.260	149.517	2098.186	7.957	7.685	2197.489	-0.313	34.9314
1.330	149.517	2098.960	7.952	7.721	2206.925	-0.287	34.9314
1.400	149.517	2098.062	7.995	7.749	2206.925	-0.300	34.9233
1.470	149.517	2097.548	7.992	7.774	2210.067	-0.313	34.9274
1.540	149.334	2097.676	8.000	7.799	2206.925	-0.313	34.9314
1.610	149.517	2098.054	8.000	7.816	2219.482	-0.313	34.9314
1.680	149.517	2098.700	8.000	7.841	2223.871	-0.300	34.9314
1.750	149.517	2097.932	8.000	7.855	2225.124	-0.300	34.9233
1.820	149.517	2097.546	7.995	7.888	2219.482	-0.300	34.9274
1.890	149.517	2097.548	7.992	7.910	2228.882	-0.313	34.9274

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.0443E 06	9.2791E 05	0.305	10.17	1165.8	0.12363E 07	0.3048	1.CCC	RUN NO. 71
MACH	RE/FT	REL	LENGTH(FT)	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.2791E 05	9.2791E 05	1.CCO	149.52	2098.4	531.64	1.0000	1.CCO	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.250	0.2045	0.2045	0.2232	0.2459	39	208	0.251	0.0492	0.0492	0.0561	0.0591
2	2	0.251	0.1922	0.1922	0.2191	0.2310	40	210	0.250	0.0349	0.0349	0.0398	0.0420
3	3	0.250	0.1714	0.1714	0.1954	0.2061	41	211	0.248	0.0281	0.0281	0.0320	0.0337
4	4	0.250	0.1600	0.1600	0.1823	0.1923	42	212	0.248	0.0197	0.0197	0.0224	0.0236
5	5	0.250	0.1446	0.1446	0.1649	0.1739	43	213	0.275	0.0000	0.0000	0.0000	0.0000
6	6	0.250	0.1321	0.1321	0.1506	0.1588	44	214	0.275	0.0000	0.0000	0.0000	0.0000
7	7	0.250	0.1110	0.1110	0.1265	0.1334	45	215	0.245	-0.0006	-0.0006	-0.0007	-0.0007
8	8	0.250	0.0915	0.0915	0.1043	0.1100	46	306	0.275	0.0001	0.0001	0.0001	0.0001
9	9	0.250	0.0775	0.0775	0.0884	0.0932	47	307	0.274	0.0077	0.0077	0.0088	0.0093
10	10	0.250	0.0667	0.0667	0.0760	0.0801	48	308	0.250	0.0341	0.0341	0.0389	0.0410
11	11	0.250	0.0569	0.0569	0.0648	0.0684	49	309	0.249	0.0278	0.0278	0.0317	0.0334
12	12	0.250	0.0521	0.0521	0.0594	0.0626	50	310	0.249	0.0249	0.0249	0.0284	0.0300
13	13	0.250	0.0484	0.0484	0.0551	0.0581	51	311	0.248	0.0203	0.0203	0.0232	0.0244
14	14	0.250	0.0515	0.0515	0.0587	0.0619	52	312	0.247	0.0124	0.0124	0.0141	0.0149
15	15	0.250	0.0516	0.0516	0.0588	0.0620	53	313	0.245	0.0042	0.0042	0.0048	0.0050
16	16	0.250	0.0540	0.0540	0.0616	0.0650	54	314	0.246	0.0001	0.0001	0.0001	0.0001
17	17	0.250	0.0577	0.0577	0.0658	0.0694	55	315	0.246	-0.0006	-0.0006	-0.0007	-0.0007
18	18	0.251	0.0593	0.0593	0.0676	0.0713	56	406	0.250	0.0790	0.0790	0.0900	0.0949
19	19	0.251	0.0614	0.0614	0.0700	0.0739	57	407	0.250	0.0776	0.0776	0.0885	0.0933
20	20	0.251	0.0636	0.0636	0.0725	0.0765	58	408	0.249	0.0688	0.0688	0.0784	0.0827
21	21	0.252	0.0651	0.0651	0.0742	0.0783	59	409	0.249	0.0605	0.0605	0.0690	0.0728
22	22	0.251	0.0667	0.0667	0.0760	0.0802	60	410	0.249	0.0505	0.0505	0.0575	0.0607
23	23	0.251	0.0681	0.0681	0.0777	0.0819	61	411	0.249	0.0426	0.0426	0.0486	0.0512
24	24	0.252	0.0706	0.0706	0.0805	0.0849	62	412	0.248	0.0241	0.0241	0.0274	0.0289
25	25	0.251	0.0715	0.0715	0.0815	0.0859	63	413	0.247	0.0128	0.0128	0.0145	0.0153
26	103	0.255	0.0643	0.0643	0.0733	0.0773	64	414	0.246	0.0026	0.0026	0.0029	0.0031
27	105	0.256	0.0631	0.0631	0.0720	0.0760	65	415	0.247	-0.0002	-0.0002	-0.0002	-0.0002
28	107	0.256	0.0598	0.0598	0.0682	0.0720	66	506	0.250	0.1260	0.1260	0.1436	0.1514
29	108	0.254	0.0511	0.0511	0.0583	0.0615	67	507	0.250	0.1212	0.1212	0.1382	0.1457
30	110	0.253	0.0366	0.0366	0.0417	0.0440	68	508	0.250	0.1127	0.1127	0.1285	0.1354
31	111	0.252	0.0295	0.0295	0.0336	0.0354	69	509	0.250	0.0952	0.0952	0.1085	0.1144
32	112	0.251	0.0184	0.0184	0.0209	0.0221	70	510	0.249	0.0825	0.0825	0.0940	0.0991
33	113	0.250	0.0091	0.0091	0.0103	0.0109	71	511	0.249	0.0735	0.0735	0.0838	0.0884
34	114	0.248	0.0012	0.0012	0.0014	0.0015	72	512	0.249	0.0523	0.0523	0.0596	0.0629
35	115	0.247	-0.0001	-0.0001	-0.0001	-0.0001	73	513	0.248	0.0269	0.0269	0.0307	0.0323
36	203	0.252	0.0585	0.0585	0.0667	0.0704	74	514	0.248	0.0047	0.0047	0.0054	0.0057
37	205	0.252	0.0586	0.0586	0.0668	0.0704	75	515	0.247	0.0007	0.0007	0.0008	0.0008
38	207	0.252	0.0551	0.0551	0.0629	0.0663							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.0443E 06	9.2791E 05	0.305	10.17	1165.8	0.12363E 07	0.3048	1.000	RUN NO. 71
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.2791E 05	9.2791E 05	1.000	149.52	2098.4	531.64	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.508)	ST(0.874)	TIME(SEC)
1	1	308.2	554.7	2.625	2.313	12.833	11.308	7.9892E-04	8.4247E-04	C.376
2	2	308.4	555.1	2.466	2.173	12.830	11.305	7.5076E-04	7.9170E-04	C.366
3	3	308.3	555.0	2.199	1.938	12.831	11.305	6.6955E-04	7.0606E-04	C.362
4	4	308.3	554.9	2.052	1.808	12.832	11.306	6.2477E-04	6.5883E-04	0.347
5	5	308.3	555.0	1.856	1.635	12.831	11.306	5.6495E-04	5.9576E-04	0.328
6	6	308.0	554.4	1.696	1.495	12.836	11.310	5.1617E-04	5.4430E-04	C.310
7	7	307.9	554.2	1.425	1.255	12.837	11.311	4.3353E-04	4.5716E-04	C.274
8	8	308.1	554.6	1.174	1.035	12.834	11.309	3.5733E-04	3.7681E-04	0.236
9	9	307.8	554.1	0.995	0.877	12.838	11.312	3.0278E-04	3.1928E-04	0.177
10	10	307.8	554.0	0.856	0.754	12.839	11.313	2.6036E-04	2.7455E-04	C.110
11	11	307.7	553.9	0.730	0.644	12.840	11.314	2.2217E-04	2.3428E-04	C.039
12	12	307.7	553.9	0.669	0.589	12.840	11.314	2.0338E-04	2.1447E-04	-0.029
13	13	308.1	554.5	0.621	0.547	12.835	11.309	1.8886E-04	1.9916E-04	-C.057
14	14	307.9	554.3	0.661	0.583	12.837	11.311	2.0116E-04	2.1212E-04	-C.045
15	15	307.8	554.1	0.662	0.583	12.838	11.312	2.0147E-04	2.1245E-04	C.006
16	16	307.9	554.3	0.694	0.611	12.837	11.311	2.1109E-04	2.2259E-04	C.045
17	17	308.1	554.6	0.741	0.653	12.834	11.308	2.2557E-04	2.3786E-04	C.073
18	18	308.7	555.6	0.760	0.670	12.826	11.301	2.3158E-04	2.4421E-04	C.091
19	19	308.9	556.0	0.788	0.694	12.823	11.298	2.4001E-04	2.5311E-04	0.125
20	20	308.9	556.0	0.816	0.719	12.822	11.298	2.4850E-04	2.6207E-04	0.142
21	21	309.9	557.9	0.834	0.735	12.807	11.284	2.5435E-04	2.6825E-04	C.150
22	22	309.5	557.2	0.854	0.753	12.813	11.290	2.6045E-04	2.7468E-04	0.158
23	23	309.5	557.2	0.873	0.769	12.813	11.290	2.6614E-04	2.8068E-04	0.167
24	24	309.7	557.4	0.905	0.797	12.811	11.288	2.7588E-04	2.9094E-04	0.167
25	25	309.2	556.5	0.916	0.807	12.818	11.295	2.7911E-04	2.9434E-04	0.169
26	103	314.3	565.8	0.819	0.721	12.741	11.227	2.5109E-04	2.6489E-04	C.160
27	105	315.7	568.3	0.803	0.707	12.721	11.209	2.4664E-04	2.6022E-04	0.157
28	107	314.6	566.3	0.762	0.671	12.737	11.223	2.3374E-04	2.4659E-04	C.127
29	108	313.1	563.5	0.652	0.575	12.760	11.243	1.9980E-04	2.1077E-04	C.014
30	110	311.1	560.0	0.468	0.412	12.789	11.269	1.4286E-04	1.5068E-04	C.046
31	111	310.2	558.3	0.377	0.332	12.803	11.281	1.1508E-04	1.2137E-04	C.205
32	112	308.7	555.6	0.235	0.207	12.826	11.301	7.1697E-05	7.5608E-05	C.525
33	113	307.3	553.2	0.117	0.103	12.845	11.319	3.5428E-05	3.7357E-05	0.781
34	114	305.4	549.7	0.016	0.014	12.874	11.344	4.7248E-06	4.9815E-06	1.433
35	115	304.0	547.2	-0.002	-0.001	12.895	11.362	-4.5734E-07	-4.8213E-07	-1.469
36	203	310.0	558.1	0.749	0.660	12.805	11.283	2.2854E-04	2.4103E-04	C.102
37	205	310.8	559.4	0.749	0.660	12.794	11.274	2.2878E-04	2.4130E-04	0.114
38	207	310.3	558.6	0.706	0.622	12.801	11.279	2.1540E-04	2.2717E-04	C.084
39	208	309.4	556.9	0.630	0.555	12.815	11.292	1.9212E-04	2.0261E-04	-0.009
40	210	308.2	554.7	0.448	0.395	12.833	11.308	1.3649E-04	1.4393E-04	-C.099
41	211	304.8	548.6	0.362	0.319	12.883	11.352	1.0958E-04	1.1553E-04	C.092
42	212	304.8	548.6	0.254	0.223	12.883	11.352	7.6851E-05	8.1022E-05	0.436
43	213	338.7	609.7	0.000	0.000	12.380	10.908	5.4579E-16	5.7678E-16	*******
44	214	338.7	609.6	0.000	0.000	12.380	10.909	5.0062E-08	5.2905E-08	1.833
45	215	301.6	542.9	-0.008	-0.007	12.931	11.394	-2.4066E-06	-2.5367E-06	-C.360
46	306	338.7	609.7	0.001	0.001	12.380	10.908	2.1735E-07	2.2969E-07	1.327
47	307	336.8	606.2	0.095	0.084	12.409	10.934	3.0073E-05	3.1776E-05	-0.505
48	308	307.5	553.5	0.439	0.386	12.843	11.316	1.3337E-04	1.4063E-04	-0.312
49	309	306.8	552.3	0.357	0.315	12.853	11.325	1.0855E-04	1.1441E-04	-C.379
50	310	306.5	551.7	0.321	0.282	12.858	11.329	9.7360E-05	1.0266E-04	-0.279
51	311	305.6	550.1	0.262	0.231	12.871	11.341	7.9464E-05	8.3782E-05	-C.052
52	312	304.1	547.3	0.159	0.141	12.894	11.361	4.8296E-05	5.0915E-05	0.444
53	313	302.1	543.8	0.054	0.048	12.923	11.387	1.6372E-05	1.7258E-05	C.621
54	314	303.0	545.5	0.001	0.001	12.909	11.375	4.0941E-07	4.3158E-07	17.054
55	315	302.6	544.7	-0.008	-0.007	12.915	11.380	-2.3839E-06	-2.5129E-06	-1.825
56	406	307.8	554.1	1.014	0.893	12.838	11.312	3.0844E-04	3.2524E-04	C.170
57	407	307.3	553.2	0.997	0.878	12.845	11.318	3.0312E-04	3.1963E-04	C.145
58	408	307.0	552.5	0.884	0.779	12.851	11.323	2.6875E-04	2.8338E-04	C.063
59	409	306.5	551.7	0.779	0.686	12.858	11.329	2.3647E-04	2.4933E-04	C.030
60	410	306.3	551.4	0.649	0.572	12.860	11.332	1.9719E-04	2.0792E-04	C.097
61	411	306.1	550.9	0.548	0.483	12.864	11.335	1.6639E-04	1.7544E-04	C.248
62	412	305.4	549.7	0.310	0.273	12.875	11.344	9.4066E-05	9.9169E-05	0.558
63	413	304.6	548.2	0.164	0.145	12.887	11.355	4.9808E-05	5.2511E-05	C.731
64	414	302.8	545.0	0.033	0.029	12.913	11.378	1.0041E-05	1.0585E-05	1.113
65	415	303.5	546.2	-0.003	-0.002	12.903	11.369	-7.7101E-07	-8.1279E-07	-6.872
66	506	307.9	554.2	1.017	1.429	12.837	11.311	4.5197E-04	5.1878E-04	C.267
67	507	307.4	554.2	1.056	1.371	12.837	11.311	4.7342E-04	4.9922E-04	C.245
68	508	307.5	553.5	1.447	1.275	12.843	11.316	4.4018E-04	4.6415E-04	C.195
69	509	307.2	552.9	1.223	1.078	12.848	11.320	3.7177E-04	3.9201E-04	C.139
70	510	306.8	552.2	1.060	0.934	12.854	11.326	3.2209E-04	3.3962E-04	0.176
71	511	307.1	552.7	0.945	0.833	12.849	11.322	2.8722E-04	3.0286E-04	C.232
72	512	306.4	551.5	0.673	0.593	12.860	11.331	2.0440E-04	2.1552E-04	C.601
73	513	305.7	550.3	0.347	0.305	12.869	11.340	1.0515E-04	1.1086E-04	0.676
74	514	304.8	548.6	0.061	0.054	12.884	11.352	1.8416E-05	1.9416E-05	1.034
75	515	303.7	546.7	0.004	0.003	12.899	11.366	1.2603E-06	2.7939E-06	1.918

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.572[illegible]E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSIA)	8.125	7.992	7.910
PT2/PT1	5.434E-02	5.345E-02	5.291E-02
TEMP(DEG R)	2[illegible].4	2228.9	2275.7
TT2/TT1	1.0243	1.0622	1.0845

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 72 FRAME 26 TO 52 CONSTANT SET 311

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
C.0	0.0	C.0	0 0 8 1	5.10	0.4961E 06	75.42	2027.58	1.0000

T(SEC)	PT(PSIA	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.237	2026.409	0.081	0.130	663.496	-0.280	17.6092
0.070	75.054	2026.408	0.081	0.141	663.496	-0.280	17.6092
0.140	75.237	2026.796	0.079	0.214	664.479	-0.293	17.6132
0.210	75.054	2027.582	0.087	0.558	673.295	-0.280	17.6132
0.280	75.420	2026.015	0.166	1.262	847.921	-0.280	17.6052
0.350	75.237	2026.015	0.666	2.032	1331.727	-0.267	17.5850
0.420	75.237	2026.667	1.780	2.816	1652.158	-0.293	17.6092
0.490	75.237	2026.797	2.782	3.520	1787.725	-0.293	17.6132
0.560	75.237	2027.449	3.367	3.951	1875.130	-0.280	17.6132
0.630	75.237	2026.142	3.764	4.048	1941.192	-0.280	17.6011
0.700	75.237	2026.146	4.028	3.929	1982.112	-0.293	33.4873
0.770	75.237	2026.278	4.142	3.767	2005.714	-0.293	34.8956
0.840	75.237	2026.661	4.161	3.678	2025.294	-0.306	34.9238
0.910	75.420	2027.575	4.140	3.687	2034.405	-0.293	34.9319
0.980	75.420	2026.140	4.116	3.734	2044.796	-0.280	34.9238
1.050	75.237	2025.879	4.105	3.790	2059.047	-0.293	34.9279
1.120	75.054	2026.010	4.105	3.834	2064.865	-0.306	34.9319
1.190	75.054	2027.052	4.110	3.865	2074.547	-0.293	34.9319
1.260	75.237	2027.577	4.116	3.881	2089.355	-0.293	34.9359
1.330	75.420	2025.882	4.116	3.906	2091.283	-0.280	34.9198
1.400	75.237	2026.140	4.113	3.920	2102.837	-0.293	34.9279
1.470	75.054	2026.010	4.116	3.937	2105.401	-0.306	34.9279
1.540	75.237	2026.528	4.116	3.954	2111.165	-0.293	34.9319
1.610	75.054	2027.314	4.116	3.965	2121.396	-0.293	34.9359
1.680	75.237	2026.271	4.116	3.984	2127.141	-0.293	34.9238
1.750	75.237	2026.140	4.116	3.993	2124.589	-0.293	34.9279
1.820	75.054	2026.663	4.116	4.001	2137.340	-0.306	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6276E 06	4.9608E 05	0.305	5.13	1126.4	0.11905E 07	0.3048	1.000	RUN NO. 72
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.9608E 05	4.9608E 05	1.000	75.42	2027.6	511.96	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.262	0.0547	0.0547	0.0624	0.0659	39	208	0.264	0.0540	0.0540	0.0617	0.0652
2	2	0.262	0.0553	0.0553	0.0632	0.0667	40	210	0.264	0.0401	0.0401	0.0458	0.0484
3	3	0.262	0.0537	0.0537	0.0613	0.0647	41	211	0.262	0.0342	0.0342	0.0391	0.0412
4	4	0.262	0.0547	0.0547	0.0625	0.0660	42	212	0.262	0.0239	0.0239	0.0273	0.0288
5	5	0.262	0.0543	0.0543	0.0620	0.0655	43	213	0.286	0.0000	0.0000	0.0000	0.0000
6	6	0.262	0.0549	0.0549	0.0628	0.0663	44	214	0.286	0.0000	0.0000	0.0000	0.0000
7	7	0.262	0.0557	0.0557	0.0637	0.0672	45	215	0.261	-0.0001	-0.0001	-0.0001	-0.0001
8	8	0.262	0.0557	0.0557	0.0637	0.0672	46	306	0.286	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.262	0.0558	0.0558	0.0637	0.0673	47	307	0.263	0.0449	0.0449	0.0513	0.0542
10	10	0.262	0.0554	0.0554	0.0633	0.0668	48	308	0.263	0.0393	0.0393	0.0449	0.0474
11	11	0.262	0.0537	0.0537	0.0614	0.0648	49	309	0.262	0.0326	0.0326	0.0372	0.0393
12	12	0.262	0.0534	0.0534	0.0610	0.0643	50	310	0.262	0.0295	0.0295	0.0336	0.0355
13	13	0.262	0.0505	0.0505	0.0577	0.0609	51	311	0.262	0.0247	0.0247	0.0282	0.0298
14	14	0.263	0.0524	0.0524	0.0598	0.0632	52	312	0.261	0.0151	0.0151	0.0173	0.0182
15	15	0.263	0.0524	0.0524	0.0598	0.0632	53	313	0.260	0.0080	0.0080	0.0091	0.0096
16	16	0.263	0.0557	0.0557	0.0636	0.0672	54	314	0.261	0.0016	0.0016	0.0018	0.0019
17	17	0.263	0.0608	0.0608	0.0694	0.0733	55	315	0.260	0.0001	0.0001	0.0001	0.0001
18	18	0.263	0.0634	0.0634	0.0724	0.0765	56	406	0.262	0.0487	0.0487	0.0557	0.0587
19	19	0.264	0.0651	0.0651	0.0744	0.0786	57	407	0.262	0.0477	0.0477	0.0545	0.0575
20	20	0.264	0.0673	0.0673	0.0769	0.0812	58	408	0.262	0.0429	0.0429	0.0490	0.0517
21	21	0.264	0.0703	0.0703	0.0803	0.0848	59	409	0.262	0.0373	0.0373	0.0426	0.0450
22	22	0.264	0.0719	0.0719	0.0822	0.0867	60	410	0.261	0.0320	0.0320	0.0365	0.0385
23	23	0.264	0.0734	0.0734	0.0839	0.0886	61	411	0.261	0.0264	0.0264	0.0302	0.0318
24	24	0.264	0.0761	0.0761	0.0870	0.0918	62	412	0.261	0.0167	0.0167	0.0190	0.0201
25	25	0.264	0.0783	0.0783	0.0895	0.0945	63	413	0.261	0.0088	0.0088	0.0101	0.0106
26	103	0.267	0.0689	0.0689	0.0787	0.0831	64	414	0.260	-0.0005	-0.0005	-0.0005	-0.0006
27	105	0.267	0.0678	0.0678	0.0775	0.0819	65	415	0.260	-0.0001	-0.0001	-0.0002	-0.0002
28	107	0.266	0.0661	0.0661	0.0756	0.0798	66	506	0.262	0.0459	0.0459	0.0524	0.0553
29	108	0.266	0.0578	0.0578	0.0661	0.0698	67	507	0.262	0.0451	0.0451	0.0515	0.0544
30	110	0.265	0.0430	0.0430	0.0492	0.0519	68	508	0.262	0.0413	0.0413	0.0471	0.0498
31	111	0.264	0.0351	0.0351	0.0402	0.0424	69	509	0.262	0.0357	0.0357	0.0408	0.0430
32	112	0.264	0.0221	0.0221	0.0253	0.0267	70	510	0.262	0.0318	0.0318	0.0363	0.0384
33	113	0.263	0.0117	0.0117	0.0134	0.0141	71	511	0.262	0.0291	0.0291	0.0332	0.0351
34	114	0.262	0.0021	0.0021	0.0024	0.0025	72	512	0.261	0.0169	0.0169	0.0193	0.0204
35	115	0.262	0.0000	0.0000	0.0000	0.0000	73	513	0.261	0.0109	0.0109	0.0124	0.0131
36	203	0.265	0.0617	0.0617	0.0705	0.0745	74	514	0.261	0.0024	0.0024	0.0027	0.0028
37	205	0.265	0.0617	0.0617	0.0706	0.0745	75	515	0.260	-0.0011	-0.0011	-0.0012	-0.0013
38	207	0.265	0.0589	0.0589	0.0673	0.0711							

ORIGINAL PAGE IS
OF POOR QUALITY.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 782
5.10	1.6276E C6	4.9608E C5	0.305	5.13	1126.4	0.1150SE 07	0.3048	1.CCO	RUN NO. 72
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.9608E C5	4.9608E 05	1.000	75.42	2027.6	511.96	1.0000	1.000	

CHAN	T/C	Tw(DEG K)	Tw(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	310.5	559.C	0.472	0.416	8.643	7.616	2.9357E-04	3.0988E-04	0.026
2	2	310.6	559.1	0.478	0.421	8.642	7.615	2.9715E-04	3.1366E-04	0.019
3	3	310.6	559.1	0.464	0.4C9	8.642	7.615	2.8825E-04	3.0426E-04	0.035
4	4	310.5	559.0	0.473	0.417	8.643	7.616	2.9397E-04	3.1030E-04	0.039
5	5	310.6	559.0	0.469	0.414	8.643	7.615	2.9171E-04	3.0791E-04	0.032
6	6	310.5	558.8	0.475	0.418	8.644	7.616	2.9511E-04	3.1150E-04	0.038
7	7	310.4	558.8	0.482	0.425	8.644	7.617	2.9940E-04	3.1603E-04	0.045
8	8	310.5	558.9	0.482	0.425	8.643	7.616	2.9941E-04	3.1604E-04	0.065
9	9	310.5	558.9	0.482	0.425	8.643	7.616	2.9962E-04	3.1626E-04	0.069
10	10	310.6	559.0	0.479	0.422	8.643	7.615	2.9755E-04	3.1408E-04	0.069
11	11	310.7	559.3	0.464	0.4C9	8.641	7.614	2.8847E-04	3.0449E-04	0.065
12	12	310.8	559.4	0.461	0.406	8.641	7.614	2.8658E-04	3.0250E-04	0.048
13	13	311.C	559.8	0.436	0.384	8.638	7.611	2.7104E-04	2.8611E-04	0.020
14	14	311.3	560.3	0.452	0.399	8.635	7.609	2.8136E-04	2.9700E-04	0.017
15	15	311.4	560.5	0.452	0.398	8.634	7.608	2.8135E-04	2.9699E-04	0.058
16	16	311.6	560.9	0.481	0.423	8.631	7.605	2.9908E-04	3.1572E-04	0.096
17	17	311.9	561.4	0.524	0.462	8.629	7.603	3.2647E-04	3.4464E-04	0.140
18	18	312.2	561.9	0.547	0.482	8.626	7.600	3.4058E-04	3.5954E-04	0.163
19	19	312.6	562.7	0.562	0.495	8.621	7.596	3.4994E-04	3.6943E-04	0.186
20	2C	312.8	563.0	0.580	0.511	8.620	7.595	3.6136E-04	3.8150E-04	0.201
21	21	313.C	563.3	0.606	0.534	8.617	7.593	3.7750E-04	3.9854E-04	0.206
22	22	312.9	563.3	0.619	0.546	8.618	7.593	3.8618E-04	4.0770E-04	0.209
23	23	313.0	563.5	0.633	0.558	8.617	7.592	3.9451E-04	4.1650E-04	0.220
24	24	313.2	563.7	0.656	0.578	8.615	7.591	4.0887E-04	4.3167E-04	0.218
25	25	313.C	563.4	0.675	0.595	8.617	7.593	4.2075E-04	4.4420E-04	0.226
26	103	316.C	568.8	0.591	0.521	8.585	7.565	3.7001E-04	3.9072E-04	0.208
27	105	316.5	569.6	0.582	0.513	8.581	7.561	3.6431E-04	3.8472E-04	0.205
28	107	315.9	568.5	0.588	0.500	8.587	7.566	3.5523E-04	3.7511E-04	0.189
29	108	315.0	567.1	0.497	0.438	8.595	7.574	3.1082E-04	3.2820E-04	0.076
30	110	314.C	565.1	0.370	0.326	8.607	7.584	2.3106E-04	2.4395E-04	0.084
31	111	313.5	564.3	0.303	0.267	8.612	7.588	1.8879E-04	1.9932E-04	0.211
32	112	312.6	562.7	0.191	0.168	8.621	7.596	1.1879E-04	1.2540E-04	0.494
33	113	312.C	561.6	0.101	0.089	8.628	7.602	6.2797E-05	6.6293E-05	0.692
34	114	310.9	559.6	0.018	0.016	8.639	7.612	1.1075E-05	1.1691E-05	0.960
35	115	310.2	558.4	0.000	0.000	8.646	7.619	9.8353E-08	1.0381E-07	1.131
36	203	313.8	564.8	0.531	0.468	8.609	7.585	3.3148E-04	3.4998E-04	0.163
37	205	314.1	565.3	0.531	0.468	8.606	7.583	3.3174E-04	3.5026E-04	0.170
38	207	313.7	564.7	0.507	0.447	8.609	7.586	3.1632E-04	3.3397E-04	0.146
39	208	313.3	563.9	0.465	0.410	8.614	7.590	2.9C07E-04	3.0625E-04	0.074
40	210	312.6	562.7	0.346	0.305	8.621	7.597	2.1541E-04	2.2741E-04	-0.021
41	211	310.9	559.6	0.295	0.260	8.639	7.612	1.8365E-04	1.9386E-04	0.161
42	212	310.8	559.5	0.207	0.182	8.640	7.613	1.2239E-04	1.3553E-04	0.431
43	213	338.7	609.7	0.000	0.000	8.347	7.355	1.2878E-15	1.3622E-15	*******
44	214	338.7	609.6	0.000	0.000	8.347	7.355	1.0211E-07	1.0802E-07	2.190
45	215	309.1	556.4	-0.001	-0.001	8.658	7.629	-4.4235E-07	-4.6687E-07	-5.824
46	3C6	338.7	609.7	-0.000	-0.000	8.347	7.355	-4.9367E-08	-5.2221E-08	-0.748
47	3C7	311.4	560.6	0.388	0.342	8.634	7.607	2.4123E-04	2.5465E-04	0.001
48	3C8	311.1	560.0	0.339	0.299	8.637	7.610	2.1113E-04	2.2287E-04	-0.146
49	309	310.7	559.3	0.281	0.248	8.641	7.614	1.7494E-04	1.8466E-04	-0.217
50	310	310.5	558.9	0.255	0.224	8.643	7.616	1.5820E-04	1.6698E-04	-0.131
51	311	310.C	558.0	0.213	0.188	8.649	7.621	1.3258E-04	1.3994E-04	0.090
52	312	309.2	556.6	0.131	0.115	8.657	7.628	8.1127E-05	8.5625E-05	0.507
53	313	308.5	555.2	0.069	0.061	8.665	7.635	4.2968E-05	4.5348E-05	0.719
54	314	308.9	556.0	0.014	0.012	8.660	7.631	8.6036E-06	9.0805E-06	1.555
55	315	308.7	555.6	0.001	0.001	8.663	7.633	6.3917E-07	6.7458E-07	9.738
56	4C6	310.7	559.3	0.421	0.371	8.641	7.614	2.6167E-04	2.7621E-04	0.027
57	407	310.5	559.0	0.412	0.363	8.643	7.616	2.5632E-04	2.7056E-04	-0.018
58	4C8	310.2	558.4	0.370	0.326	8.646	7.618	2.3015E-04	2.4293E-04	-0.111
59	4C9	310.C	558.1	0.323	0.284	8.648	7.620	2.0048E-04	2.1161E-04	-0.173
60	410	310.C	557.9	0.276	0.244	8.649	7.621	1.7170E-04	1.8123E-04	-0.090
61	411	309.8	557.6	0.229	0.201	8.651	7.623	1.4188E-04	1.4975E-04	-0.001
62	412	309.5	557.1	0.144	0.127	8.654	7.625	8.9516E-05	9.4482E-05	0.404
63	413	309.C	556.3	0.076	0.067	8.659	7.629	4.7313E-05	4.9936E-05	0.570
64	414	308.1	554.5	-0.004	-0.004	8.669	7.639	-2.5063E-06	-2.6450E-06	2.853
65	415	308.5	555.3	-0.001	-0.001	8.664	7.634	-7.3658E-07	-7.7739E-07	-9.986
66	5C6	310.7	559.2	0.397	0.349	8.641	7.614	2.4652E-04	2.6022E-04	-0.010
67	507	310.6	559.1	0.390	0.343	8.642	7.615	2.4219E-04	2.5565E-04	-0.034
68	508	310.5	558.8	0.357	0.314	8.644	7.616	2.2166E-04	2.3397E-04	-0.141
69	509	310.3	558.5	0.309	0.272	8.646	7.618	1.9174E-04	2.0239E-04	-0.177
70	51C	310.0	558.0	0.275	0.242	8.649	7.621	1.7085E-04	1.8034E-04	-0.085
71	511	310.1	558.2	0.251	0.222	8.647	7.620	1.5619E-04	1.6486E-04	-0.016
72	512	309.8	557.6	0.146	0.129	8.651	7.623	9.0930E-05	9.5976E-05	0.075
73	513	309.5	557.2	0.094	0.083	8.653	7.625	5.8404E-05	6.1644E-05	0.389
74	514	309.C	556.2	0.020	C.018	8.659	7.630	1.2637E-05	1.3337E-05	1.068
75	515	308.5	555.3	-0.009	-C.008	8.664	7.635	-5.7C15E-06	-6.0173E-06	0.015

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3325E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	4.146	4.116	4.001
PT2/PT1	5.497E-02	5.457E-02	5.305E-02
TEMP(DEG R)	2066.8	2137.3	2181.7
TT2/TT1	1.0193	1.0541	1.0760

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 73 FRAME 25 TO 52 CONSTANT SET 311

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9576E 06	147.71	2045.07	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	147.531	2041.572	0.157	0.212	693.627	-0.280	17.3590
0.070	147.531	2041.702	0.157	0.234	692.666	-0.280	17.6052
0.140	147.714	2042.089	0.157	0.382	695.546	-0.306	17.5164
0.210	147.531	2042.353	0.168	1.121	712.694	-0.280	17.4074
0.280	147.531	2043.651	0.321	2.687	954.250	-0.293	17.4438
0.350	147.714	2042.997	1.448	4.152	1493.464	-0.280	17.5890
0.420	147.714	2042.346	3.673	5.660	1780.887	-0.293	17.5769
0.490	147.714	2042.740	5.565	7.025	1907.271	-0.306	17.5325
0.560	147.714	2043.777	6.657	7.773	1995.239	-0.306	17.6092
0.630	147.531	2044.822	7.427	7.934	2051.927	-0.306	17.5850
0.700	147.714	2044.295	7.879	7.720	2076.481	-0.293	34.3751
0.770	147.714	2044.169	8.025	7.409	2088.069	-0.280	34.8754
0.840	147.714	2044.557	7.985	7.234	2098.989	-0.332	34.8754
0.910	147.714	2045.074	7.924	7.242	2110.525	-0.306	34.9279
0.980	147.714	2045.596	7.879	7.345	2116.283	-0.306	34.9319
1.050	147.714	2045.726	7.877	7.467	2130.331	-0.293	34.9238
1.120	147.714	2045.337	7.869	7.565	2132.881	-0.306	34.9238
1.190	147.714	2045.597	7.874	7.662	2148.154	-0.306	34.9279
1.260	147.714	2046.118	7.879	7.734	2148.790	-0.319	34.9319
1.330	147.714	2046.118	7.887	7.776	2150.060	-0.319	34.9319
1.400	147.714	2046.118	7.887	7.815	2167.183	-0.293	34.9238
1.470	147.714	2045.986	7.879	7.831	2152.600	-0.293	34.9238
1.540	147.714	2045.988	7.890	7.859	2162.749	-0.306	34.9279
1.610	147.714	2046.248	7.893	7.901	2174.776	-0.306	34.9319
1.680	147.714	2047.797	7.890	7.926	2173.511	-0.306	34.9319
1.750	148.263	2047.671	7.893	7.943	2175.408	-0.293	34.9238
1.820	147.714	2046.377	7.890	7.957	2175.408	-0.280	34.9279
1.890	147.714	2047.282	7.890	7.971	2172.246	-0.319	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1418E C6	9.5761E 05	0.305	10.05	1136.2	0.12018E 07	0.3048	1.000	RUN NO. 73
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5761E 05	9.5761E 05	1.000	147.71	2045.1	516.81	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.261	C.2308	0.2308	0.2636	0.2782	39	208	0.264	0.0503	0.0503	0.0575	0.0607
2	2	0.261	C.2231	0.2231	0.2548	0.2689	40	210	0.263	0.0349	0.0349	0.0399	0.0421
3	3	0.261	0.2040	0.2040	0.2330	0.2460	41	211	0.261	0.0301	0.0301	0.0344	0.0363
4	4	0.261	0.1949	0.1949	0.2227	0.2350	42	212	0.261	0.0226	0.0226	0.0258	0.0272
5	5	0.261	0.1787	0.1787	0.2042	0.2155	43	213	0.283	0.0000	0.0000	0.0000	0.0000
6	6	0.261	0.1654	0.1654	0.1890	0.1995	44	214	0.283	0.0000	0.0000	0.0000	0.0000
7	7	0.261	0.1397	0.1397	0.1595	0.1684	45	215	0.258	0.0001	0.0001	0.0002	0.0002
8	8	0.261	0.1117	0.1117	0.1276	0.1347	46	306	0.283	-0.0000	-0.0000	-0.0000	-0.0000
9	9	0.261	0.0905	0.0905	0.1034	0.1091	47	307	0.262	0.0419	0.0419	0.0479	0.0505
10	10	0.261	0.0736	0.0736	0.0840	0.0887	48	308	0.262	0.0363	0.0363	0.0415	0.0438
11	11	0.262	0.0595	0.0595	0.0679	0.0717	49	309	0.261	0.0301	0.0301	0.0344	0.0363
12	12	0.262	0.0531	0.0531	0.0607	0.0641	50	310	0.261	0.0282	0.0282	0.0322	0.0340
13	13	0.262	0.0500	0.0500	0.0571	0.0603	51	311	0.260	0.0256	0.0256	0.0292	0.0308
14	14	0.262	0.0531	0.0531	0.0607	0.0641	52	312	0.259	0.0161	0.0161	0.0183	0.0194
15	15	0.262	0.0528	0.0528	0.0603	0.0637	53	313	0.258	0.0070	0.0070	0.0080	0.0084
16	16	0.262	0.0550	0.0550	0.0629	0.0664	54	314	0.259	0.0011	0.0011	0.0013	0.0014
17	17	0.263	0.0580	0.0580	0.0663	0.0700	55	315	0.258	-0.0004	-0.0004	-0.0004	-0.0005
18	18	0.263	0.0599	0.0599	0.0685	0.0723	56	406	0.261	0.0935	0.0935	0.1069	0.1128
19	19	0.263	0.0609	0.0609	0.0696	0.0735	57	407	0.261	0.0943	0.0943	0.1077	0.1136
20	20	0.263	0.0624	0.0624	0.0713	0.0753	58	408	0.261	0.0877	0.0877	0.1002	0.1057
21	21	0.264	0.0650	0.0650	0.0743	0.0784	59	409	0.261	0.0792	0.0792	0.0905	0.0955
22	22	0.264	0.0656	0.0656	0.0750	0.0792	60	410	0.260	0.0681	0.0681	0.0778	0.0821
23	23	0.264	0.0661	0.0661	0.0755	0.0798	61	411	0.260	0.0591	0.0591	0.0675	0.0712
24	24	0.264	0.0686	0.0686	0.0784	0.0827	62	412	0.260	0.0371	0.0371	0.0424	0.0448
25	25	0.264	0.0710	0.0710	0.0812	0.0857	63	413	0.259	0.0227	0.0227	0.0259	0.0274
26	103	0.267	0.0627	0.0627	0.0717	0.0758	64	414	0.257	0.0042	0.0042	0.0048	0.0050
27	105	0.268	0.0618	0.0618	0.0707	0.0747	65	415	0.258	-0.0001	-0.0001	-0.0001	-0.0001
28	107	0.267	0.0601	0.0601	0.0687	0.0725	66	506	0.261	0.1516	0.1516	0.1731	0.1827
29	108	0.266	0.0535	0.0535	0.0612	0.0646	67	507	0.261	0.1495	0.1495	0.1708	0.1803
30	110	0.264	0.0389	0.0389	0.0445	0.0470	68	508	0.261	0.1437	0.1437	0.1642	0.1733
31	111	0.264	0.0321	0.0321	0.0367	0.0387	69	509	0.261	0.1248	0.1248	0.1426	0.1505
32	112	0.263	0.0211	0.0211	0.0241	0.0254	70	510	0.261	0.1109	0.1109	0.1266	0.1337
33	113	0.262	0.0113	0.0113	0.0129	0.0136	71	511	0.261	0.1026	0.1026	0.1172	0.1237
34	114	0.260	0.0023	0.0023	0.0026	0.0027	72	512	0.260	0.0718	0.0718	0.0820	0.0865
35	115	0.260	C.0002	0.0002	0.0002	C.0002	73	513	0.260	0.0447	0.0447	0.0511	0.0539
36	203	0.265	C.0579	0.0579	0.0662	0.0699	74	514	0.259	0.0107	0.0107	0.0122	0.0129
37	205	0.265	0.0580	0.0580	0.0663	0.0701	75	515	0.258	0.0019	0.0019	0.0021	0.0022
38	207	0.265	0.0554	0.0554	0.0633	0.0669							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1418E 06	9.5761E 05	0.305	10.05	1136.2	0.12018E 07	0.3048	1.000	RUN NO. 73
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5761E 05	9.5761E 05	1.000	147.71	2045.1	516.81	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	312.6	562.7	2.820	2.484	12.219	10.767	8.9103E-04	9.4048E-04	0.322
2	2	312.6	563.1	2.725	2.401	12.216	10.764	8.6136E-04	9.0917E-04	0.308
3	3	312.8	563.0	2.492	2.196	12.217	10.764	7.8772E-04	8.3144E-04	0.304
4	4	312.8	563.0	2.382	2.098	12.217	10.765	7.5274E-04	7.9451E-04	0.291
5	5	312.8	563.1	2.184	1.924	12.216	10.764	6.9024E-04	7.2855E-04	0.265
6	6	312.7	562.9	2.021	1.781	12.218	10.766	6.3885E-04	6.7431E-04	0.247
7	7	312.7	562.9	1.706	1.504	12.218	10.765	5.3934E-04	5.6927E-04	0.211
8	8	312.9	563.2	1.365	1.203	12.215	10.763	4.3143E-04	4.5537E-04	0.154
9	9	312.8	563.1	1.105	0.974	12.216	10.764	3.4939E-04	3.6878E-04	0.095
10	10	312.9	563.2	0.899	0.792	12.215	10.763	2.8409E-04	2.9986E-04	0.021
11	11	313.0	563.3	0.726	0.640	12.214	10.762	2.2959E-04	2.4233E-04	-0.065
12	12	313.1	563.5	0.649	0.572	12.213	10.761	2.0518E-04	2.1657E-04	-0.134
13	13	313.5	564.3	0.610	0.538	12.206	10.756	1.9314E-04	2.0387E-04	-0.128
14	14	313.8	564.8	0.648	0.571	12.202	10.752	2.0523E-04	2.1663E-04	-0.096
15	15	313.8	564.9	0.644	0.568	12.202	10.751	2.0393E-04	2.1527E-04	-0.029
16	16	314.1	565.3	0.671	0.592	12.198	10.748	2.1256E-04	2.2438E-04	0.021
17	17	314.3	565.7	0.708	0.623	12.195	10.745	2.2407E-04	2.3653E-04	0.042
18	18	314.7	566.4	0.730	0.643	12.189	10.740	2.3138E-04	2.4425E-04	0.070
19	19	315.1	567.2	0.742	0.654	12.182	10.734	2.3526E-04	2.4836E-04	0.094
20	20	315.2	567.4	0.760	0.670	12.181	10.733	2.4096E-04	2.5438E-04	0.104
21	21	315.5	568.0	0.792	0.698	12.176	10.729	2.5111E-04	2.6510E-04	0.117
22	22	315.5	567.8	0.799	0.704	12.177	10.730	2.5351E-04	2.6764E-04	0.117
23	23	315.6	568.0	0.805	0.709	12.176	10.728	2.5533E-04	2.6956E-04	0.123
24	24	315.8	568.4	0.835	0.736	12.173	10.726	2.6490E-04	2.7966E-04	0.127
25	25	315.6	568.1	0.865	0.762	12.175	10.728	2.7429E-04	2.8957E-04	0.142
26	103	319.6	575.3	0.760	0.670	12.116	10.676	2.4239E-04	2.5597E-04	0.117
27	105	320.3	576.6	0.748	0.659	12.105	10.667	2.3882E-04	2.5221E-04	0.110
28	107	319.4	574.9	0.728	0.642	12.120	10.679	2.3210E-04	2.4510E-04	0.096
29	108	318.1	572.6	0.650	0.572	12.138	10.696	2.0672E-04	2.1828E-04	0.004
30	110	316.5	569.6	0.474	0.417	12.163	10.717	1.5039E-04	1.5878E-04	-0.038
31	111	315.7	568.2	0.391	0.344	12.174	10.727	1.2389E-04	1.3079E-04	0.088
32	112	314.4	565.8	0.257	0.227	12.194	10.744	8.1442E-05	8.5971E-05	0.388
33	113	313.2	563.8	0.138	0.121	12.211	10.759	4.3595E-05	4.6016E-05	0.603
34	114	311.6	560.9	0.028	0.025	12.234	10.780	8.7913E-06	9.2784E-06	0.868
35	115	310.7	559.2	0.002	0.002	12.248	10.792	6.7382E-07	7.1112E-07	0.756
36	203	316.6	569.9	0.704	0.621	12.160	10.715	2.2377E-04	2.3626E-04	0.078
37	205	317.1	570.8	0.705	0.622	12.153	10.708	2.2422E-04	2.3674E-04	0.085
38	207	316.8	569.9	0.674	0.594	12.160	10.715	2.1406E-04	2.2600E-04	0.067
39	208	315.8	568.5	0.612	0.540	12.172	10.725	1.9430E-04	2.0513E-04	-0.031
40	210	314.7	566.4	0.425	0.375	12.189	10.740	1.3477E-04	1.4227E-04	-0.291
41	211	312.0	561.7	0.369	0.325	12.228	10.774	1.1640E-04	1.2285E-04	-0.026
42	212	311.9	561.5	0.276	0.243	12.229	10.776	8.7154E-05	9.1985E-05	0.310
43	213	338.7	609.7	0.000	0.000	11.835	10.429	5.7725E-16	6.1046E-16	*******
44	214	338.7	609.6	0.000	0.000	11.836	10.429	1.2963E-07	1.3708E-07	1.633
45	215	309.2	556.6	0.002	0.002	12.270	10.811	5.4907E-07	5.7940E-07	8.586
46	306	338.7	609.7	-0.000	-0.000	11.835	10.428	-4.9935E-08	-5.2808E-08	-0.018
47	307	313.9	565.0	0.511	0.450	12.200	10.750	1.6182E-04	1.7082E-04	-0.189
48	308	313.3	564.0	0.443	0.390	12.209	10.758	1.4013E-04	1.4792E-04	-0.408
49	309	312.6	562.7	0.368	0.324	12.219	10.767	1.1631E-04	1.2277E-04	-0.527
50	310	312.1	561.8	0.345	0.304	12.226	10.773	1.0887E-04	1.1491E-04	-0.395
51	311	311.2	560.1	0.313	0.276	12.240	10.785	9.8813E-05	1.0428E-04	-0.079
52	312	309.8	557.6	0.197	0.174	12.261	10.804	6.2045E-05	6.5475E-05	0.377
53	313	308.9	555.9	0.086	0.076	12.275	10.816	2.6960E-05	2.8448E-05	0.712
54	314	309.4	557.0	0.014	0.012	12.266	10.808	4.3398E-06	4.5796E-06	2.270
55	315	309.2	556.5	-0.005	-0.004	12.270	10.811	-1.4466E-06	-1.5265E-06	-2.947
56	406	312.9	563.2	1.143	1.007	12.215	10.763	3.6122E-04	3.8127E-04	0.080
57	407	312.6	562.7	1.152	1.015	12.219	10.767	3.6394E-04	3.8413E-04	0.072
58	408	312.2	561.9	1.072	0.945	12.226	10.773	3.3867E-04	3.5745E-04	0.004
59	409	311.8	561.2	0.969	0.854	12.232	10.778	3.0592E-04	3.2288E-04	-0.058
60	410	311.8	560.9	0.833	0.734	12.234	10.780	2.6303E-04	2.7761E-04	-0.025
61	411	311.3	560.3	0.723	0.637	12.239	10.784	2.2814E-04	2.4078E-04	0.087
62	412	310.5	559.0	0.455	0.401	12.250	10.794	1.4342E-04	1.5136E-04	0.402
63	413	309.7	557.4	0.279	0.245	12.263	10.805	8.7678E-05	9.2523E-05	0.637
64	414	308.1	554.6	0.051	0.045	12.286	10.826	1.6175E-05	1.7067E-05	1.144
65	415	309.0	556.2	-0.001	-0.001	12.273	10.814	-2.7377E-07	-2.8889E-07	-29.582
66	506	312.8	563.1	1.851	1.631	12.216	10.764	5.8525E-04	6.1773E-04	0.197
67	507	312.8	563.0	1.827	1.609	12.217	10.764	5.7735E-04	6.0940E-04	0.187
68	508	312.5	562.5	1.756	1.547	12.221	10.768	5.5492E-04	5.8571E-04	0.143
69	509	312.2	561.9	1.526	1.345	12.226	10.773	4.8196E-04	5.0869E-04	0.053
70	510	311.8	561.2	1.356	1.195	12.232	10.778	4.2813E-04	4.5186E-04	0.058
71	511	311.9	561.4	1.255	1.106	12.230	10.777	3.9621E-04	4.1817E-04	0.107
72	512	311.3	560.3	0.878	0.774	12.239	10.784	2.7713E-04	2.9248E-04	0.350
73	513	310.8	559.4	0.548	0.482	12.246	10.791	1.7262E-04	1.8217E-04	0.579
74	514	309.7	557.4	0.131	0.116	12.263	10.805	4.1294E-05	4.3576E-05	0.956
75	515	308.7	555.7	0.023	0.020	12.277	10.818	7.1793E-06	7.5755E-06	2.279

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.5929E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.156	7.890	7.971
PT2/PT1	5.521E-02	5.341E-02	5.396E-02
TEMP(DEG R)	2116.3	2172.2	2243.3
TT2/TT1	1.0348	1.0622	1.0969

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 74 FRAME 25 TO 52 CONSTANT SET 312

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	C.0	0 0 8 1	5.1C	0.1974E 07		304.46	2044.67	1.CCCO

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PCS
0.000	304.273	2045.958	0.287	C.367	759.197	-C.293	17.6011
0.070	304.456	2045.177	C.276	C.395	760.111	-0.280	17.6052
0.140	304.273	2045.438	C.276	C.553	761.938	-0.306	17.6092
0.210	304.273	2045.571	0.292	1.593	779.173	-0.306	17.5890
0.280	304.273	2045.958	0.430	4.387	932.131	-0.306	17.5729
0.350	304.456	2045.962	1.863	7.583	1469.767	-0.306	17.5648
0.420	304.456	2044.931	5.982	10.474	1780.887	-0.306	17.5688
0.490	304.456	2045.311	10.407	13.429	1929.247	-0.319	17.5729
0.560	304.456	2045.311	13.620	15.322	2017.472	-0.319	17.5850
0.630	304.273	2045.311	14.713	15.922	2053.870	-0.319	17.5245
0.700	304.456	2044.931	15.879	15.711	2089.355	-0.306	18.4808
0.770	304.456	2044.801	16.371	15.069	2095.780	-0.306	34.831C
0.840	304.273	2044.931	16.382	14.630	2115.643	-0.306	34.8996
0.910	304.456	2044.670	16.252	14.552	2118.201	-0.319	34.9158
0.980	304.456	2045.061	16.133	14.708	2111.805	-0.319	34.9077
1.050	304.456	2045.191	16.059	14.919	2123.312	-0.306	34.9198
1.120	304.639	2045.061	16.040	15.125	2123.312	-0.306	34.9158
1.190	304.456	2044.931	16.062	15.308	2130.968	-0.319	34.9158
1.260	304.456	2045.061	16.080	15.422	2134.155	-0.319	34.9279
1.330	304.456	2045.191	16.093	15.517	2124.589	-0.319	34.9238
1.400	304.456	2045.322	16.120	15.608	2143.068	-0.306	34.9238
1.470	304.639	2045.061	16.114	15.656	2135.429	-0.306	34.9238
1.540	304.456	2044.800	16.093	15.686	2141.796	-0.319	34.9158
1.610	304.456	2045.061	16.093	15.739	2137.340	-0.319	34.9037
1.680	304.456	2044.930	16.093	15.783	2135.429	-0.319	34.9238
1.750	304.639	2045.571	16.093	15.811	2148.154	-0.306	34.9238
1.820	304.822	2045.180	16.101	15.831	2135.429	-0.306	34.9238
1.890	304.456	2044.670	16.093	15.855	2137.340	-0.319	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.47778 06	1.9744E 06	C.305	20.71	1135.9	0.12016E 07	0.3048	1.CCC	RUN NO.	74
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9744E 06	1.9744E 06	1.CC0	304.46	2044.7	516.70	1.CCCO	1.CC0		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.0C0)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(C.908)	H/HS(0.874)
1	1	0.264	C.3090	0.3090	C.3531	0.3728	39	208	C.268	0.0470	C.C470	0.0538	C.0568
2	2	0.264	C.3149	C.3149	C.3599	0.38C0	40	21C	C.266	0.0389	C.0389	0.0445	C.0470
3	3	0.264	0.3068	C.3068	C.3506	0.37C2	41	211	0.261	C.0302	0.C3C2	0.0344	C.0364
4	4	0.264	C.3156	0.3156	C.3607	C.3808	42	212	0.261	0.0247	C.C247	0.C283	0.C298
5	5	0.264	C.3160	0.3160	C.3611	0.3813	43	213	0.283	0.CCCC	0.CCCO	0.CCCO	C.CCCO
6	6	0.264	0.3195	C.3195	C.3652	0.3856	44	214	0.283	-0.CCC1	-0.CCC1	-0.0001	-C.CCC1
7	7	0.265	0.3309	0.3309	C.3782	0.3993	45	215	0.257	0.CC11	0.CC11	0.0C13	0.C013
8	8	0.265	C.3351	0.3351	C.3830	C.4043	46	306	0.283	0.0001	C.CCC1	0.CCC1	C.CCC1
9	9	0.265	0.3391	0.3391	0.3876	0.4092	47	307	0.266	0.1225	0.1225	C.1400	C.1478
10	10	0.265	C.3315	C.3315	C.3789	0.4CC1	48	308	0.265	0.1234	0.1234	0.1411	0.1489
11	11	0.265	0.2903	0.2903	C.3319	C.35C4	49	309	0.264	0.1113	0.1113	0.1272	0.1342
12	12	0.265	C.2328	0.2328	C.2661	0.2809	50	310	0.263	0.1048	C.1048	0.1197	0.1264
13	13	0.265	C.1602	0.1602	0.1832	0.1934	51	311	0.262	0.0906	0.C906	0.1035	0.1092
14	14	0.266	C.1126	C.1126	0.1287	C.1359	52	312	0.260	0.0556	0.C556	0.0635	0.0670
15	15	0.266	0.0774	C.0774	C.0884	C.C934	53	313	0.256	0.0412	0.C412	0.0470	0.0496
16	16	0.266	0.0643	0.0643	C.0735	0.0776	54	314	0.257	0.0109	C.C1C9	0.C124	C.C131
17	17	0.266	C.0602	C.06C2	0.0688	0.0727	55	315	0.257	0.0000	0.CC0C	C.0000	C.CCCO
18	18	0.267	C.0592	C.C592	C.C676	0.0714	56	406	0.264	0.2968	0.2968	0.3393	0.3582
19	19	0.267	0.0586	C.0586	C.C67C	0.0707	57	407	0.264	0.2963	0.2963	0.3387	0.3575
20	20	0.267	C.0598	0.0598	C.0684	0.0722	58	408	0.263	0.2765	0.2765	0.3160	0.3335
21	21	0.268	0.0603	C.C6C3	C.0689	0.0728	59	409	0.262	0.2566	0.2566	0.2932	0.3095
22	22	0.267	0.0615	C.0615	C.C703	0.C742	60	410	0.262	0.2277	0.2277	0.2601	0.2745
23	23	0.267	C.0622	C.0622	C.0711	C.0751	61	411	0.262	0.2CC1	0.2CC1	0.2286	0.2413
24	24	0.268	0.0664	0.0664	C.0759	0.C802	62	412	0.261	0.1339	C.1339	0.1530	C.1614
25	25	0.267	C.0682	C.0682	C.0779	0.0823	63	413	0.259	0.0829	C.0829	C.0947	0.0999
26	103	0.273	C.0558	C.0558	C.C639	C.C676	64	414	0.257	C.0159	0.0159	0.0181	0.0191
27	105	0.274	0.0554	C.0554	C.0635	C.0671	65	415	0.258	-0.CC15	-0.CC15	-0.CC18	-0.0019
28	107	0.273	C.0529	0.0529	0.0606	C.C640	66	506	0.264	0.2774	0.2774	C.3171	C.3348
29	108	0.271	C.0450	0.0450	C.0514	0.0543	67	5C7	0.264	0.27C9	0.2709	0.3096	C.3269
30	110	0.268	0.0342	C.C342	C.C392	C.C414	68	508	C.264	0.2629	0.2629	0.3005	0.3172
31	111	0.267	C.0283	0.0283	C.0324	C.0342	69	509	0.263	0.2334	0.2334	0.2667	0.2815
32	112	0.265	C.0191	0.0191	0.0219	0.0231	70	510	C.262	0.2121	0.2121	C.2423	C.2558
33	113	0.263	C.0092	C.CC92	0.01C5	0.0111	71	511	0.263	0.1932	0.1932	0.2208	0.2330
34	114	0.261	C.0014	C.0014	C.C015	0.CC16	72	512	0.262	0.1397	0.1397	0.1596	0.1685
35	115	0.260	-C.CC02	-0.0002	-C.0003	-C.C003	73	513	0.261	0.0884	0.1009	0.1009	0.1065
36	203	0.269	C.0532	0.0532	C.C608	0.0642	74	514	0.259	0.015C	C.C150	C.0171	C.C180
37	205	0.270	C.0529	C.0529	0.0606	0.C640	75	515	0.258	-0.018C	-0.0180	-C.0205	-C.0217
38	207	0.269	C.0504	C.0504	C.0577	0.C609							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	0.4777E 06	1.9744E 06	0.305	20.71	1135.9	0.12016E 07	0.3048	1.000	RUN NO. 74
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	1.9744E 06	1.9744E 06	1.000	304.46	2044.7	516.70	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	315.7	568.3	5.359	4.757	17.472	15.365	8.3122E-04	8.7754E-04	0.359
2	2	316.2	569.1	5.459	4.846	17.463	15.387	8.4716E-04	8.9440E-04	0.356
3	3	316.2	569.2	5.356	4.720	17.462	15.386	8.2521E-04	8.7123E-04	0.362
4	4	316.2	569.2	5.511	4.856	17.462	15.386	8.4901E-04	8.9635E-04	0.361
5	5	316.4	569.4	5.516	4.860	17.459	15.383	8.4997E-04	8.9738E-04	0.355
6	6	316.3	569.3	5.579	4.916	17.460	15.385	8.5956E-04	9.0750E-04	0.355
7	7	316.5	569.7	5.776	5.089	17.455	15.380	8.9021E-04	9.3988E-04	0.360
8	8	316.7	570.0	5.847	5.152	17.452	15.377	9.0136E-04	9.5166E-04	0.367
9	9	316.5	569.8	5.919	5.215	17.455	15.380	9.1226E-04	9.6315E-04	0.367
10	10	316.7	570.0	5.786	5.098	17.452	15.377	8.9196E-04	9.4167E-04	0.361
11	11	316.7	570.1	5.067	4.464	17.451	15.376	7.8110E-04	8.2469E-04	0.331
12	12	316.8	570.3	4.061	3.579	17.448	15.374	6.2621E-04	6.6116E-04	0.260
13	13	317.5	571.5	2.793	2.461	17.434	15.361	4.3105E-04	4.5513E-04	0.150
14	14	318.0	572.5	1.962	1.729	17.423	15.352	3.0296E-04	3.1990E-04	-0.024
15	15	317.8	572.1	1.348	1.188	17.428	15.356	2.0813E-04	2.1977E-04	-0.141
16	16	318.1	572.6	1.120	0.987	17.421	15.350	1.7298E-04	1.8265E-04	-0.167
17	17	318.4	573.1	1.049	0.924	17.416	15.346	1.6201E-04	1.7107E-04	-0.159
18	18	319.0	574.1	1.030	0.907	17.403	15.335	1.5918E-04	1.6809E-04	-0.106
19	19	319.5	575.0	1.019	0.898	17.393	15.325	1.5760E-04	1.6643E-04	-0.058
20	20	319.5	575.1	1.040	0.917	17.392	15.325	1.6093E-04	1.6994E-04	-0.024
21	21	320.2	576.3	1.047	0.923	17.378	15.312	1.6217E-04	1.7127E-04	-0.029
22	22	319.8	575.6	1.069	0.942	17.386	15.320	1.6542E-04	1.7469E-04	-0.012
23	23	319.9	575.9	1.081	0.952	17.383	15.317	1.6733E-04	1.7671E-04	0.016
24	24	320.3	576.5	1.154	1.016	17.376	15.310	1.7867E-04	1.8869E-04	0.045
25	25	319.5	575.2	1.185	1.044	17.391	15.324	1.8339E-04	1.9366E-04	0.034
26	103	326.7	588.1	0.963	0.848	17.240	15.191	1.5038E-04	1.5889E-04	-0.038
27	105	328.2	590.8	0.956	0.840	17.288	15.162	1.4923E-04	1.5769E-04	-0.033
28	107	326.5	587.7	0.913	0.804	17.244	15.194	1.4252E-04	1.5058E-04	-0.078
29	108	324.1	583.4	0.777	0.685	17.294	15.239	1.2101E-04	1.2783E-04	-0.281
30	110	321.1	578.0	0.594	0.524	17.358	15.294	9.2157E-05	9.7332E-05	-0.316
31	111	319.7	575.4	0.492	0.434	17.388	15.321	7.6150E-05	8.0417E-05	-0.200
32	112	317.2	570.9	0.334	0.294	17.441	15.368	5.1489E-05	5.4364E-05	0.112
33	113	315.2	567.3	0.161	0.142	17.484	15.406	2.4726E-05	2.6103E-05	0.299
34	114	312.2	561.9	0.024	0.021	17.547	15.461	3.6371E-06	3.8388E-06	0.899
35	115	310.6	559.0	-0.004	-0.003	17.581	15.491	-6.0538E-07	-6.3888E-07	-2.083
36	203	321.7	579.0	0.922	0.812	17.346	15.285	1.4306E-04	1.5110E-04	-0.171
37	205	322.7	580.9	0.917	0.808	17.324	15.265	1.4246E-04	1.5048E-04	-0.164
38	207	321.8	579.2	0.875	0.771	17.344	15.282	1.3573E-04	1.4336E-04	-0.194
39	208	320.3	576.5	0.817	0.720	17.376	15.310	1.2653E-04	1.3363E-04	-0.334
40	210	318.1	572.5	0.679	0.598	17.422	15.351	1.0480E-04	1.1065E-04	-0.511
41	211	317.8	563.0	0.529	0.466	17.534	15.450	8.1097E-05	8.5598E-05	-0.456
42	212	312.6	562.6	0.434	0.382	17.539	15.454	6.6545E-05	7.0237E-05	-0.035
43	213	338.7	609.7	0.000	0.000	16.985	14.967	7.9997E-18	8.4800E-18	*******
44	214	338.6	609.5	-0.001	-0.001	16.986	14.969	-1.5747E-07	-1.6653E-07	0.632
45	215	307.3	553.2	0.020	0.017	17.649	15.551	2.9513E-06	3.1561E-06	3.559
46	306	338.7	609.7	0.001	0.001	16.986	14.967	1.8148E-07	1.9192E-07	1.667
47	307	317.7	571.9	2.135	1.881	17.430	15.358	3.2951E-04	3.4793E-04	0.032
48	308	316.5	569.7	2.154	1.898	17.455	15.380	3.3159E-04	3.5052E-04	-0.017
49	309	315.3	567.6	1.945	1.714	17.480	15.402	2.9330E-04	3.1597E-04	-0.104
50	310	314.7	566.4	1.833	1.615	17.494	15.414	2.8188E-04	2.9757E-04	-0.059
51	311	313.4	564.1	1.587	1.399	17.522	15.439	2.4364E-04	2.5718E-04	0.067
52	312	311.0	559.9	0.977	0.861	17.571	15.483	1.4558E-04	1.5787E-04	0.276
53	313	306.8	552.3	0.727	0.641	17.660	15.561	1.1076E-04	1.1679E-04	0.510
54	314	307.9	554.2	0.192	0.169	17.638	15.542	2.9240E-05	3.0853E-05	1.011
55	315	307.8	554.1	0.000	0.000	17.639	15.542	3.0341E-08	3.2014E-08	306.902
56	406	316.2	569.1	5.183	4.567	17.462	15.386	7.9852E-04	8.4305E-04	0.306
57	407	315.4	567.7	5.180	4.564	17.479	15.401	7.9714E-04	8.4154E-04	0.303
58	408	314.7	566.5	4.837	4.262	17.493	15.414	7.4374E-04	7.8513E-04	0.261
59	409	313.9	565.1	4.493	3.959	17.510	15.429	6.9014E-04	7.2851E-04	0.225
60	410	313.7	564.7	3.987	3.513	17.515	15.433	6.1230E-04	6.4633E-04	0.226
61	411	313.1	563.6	3.508	3.091	17.528	15.444	5.3820E-04	5.6808E-04	0.259
62	412	311.7	561.0	2.352	2.072	17.558	15.471	3.6016E-04	3.8012E-04	0.435
63	413	310.4	558.8	1.658	1.285	17.584	15.494	2.2301E-04	2.3535E-04	0.611
64	414	307.9	554.3	0.280	0.246	17.637	15.541	4.2630E-05	4.4980E-05	1.253
65	415	308.5	555.3	-0.027	-0.024	17.624	15.530	-4.1419E-06	-4.3705E-06	-1.406
66	506	316.3	569.4	4.843	4.268	17.459	15.384	7.4629E-04	7.8792E-04	0.290
67	507	316.1	569.0	4.731	4.168	17.464	15.388	7.2870E-04	7.6933E-04	0.276
68	508	315.4	567.7	4.556	4.049	17.479	15.401	7.0725E-04	7.4665E-04	0.248
69	509	314.8	566.7	4.462	3.597	17.491	15.412	6.2776E-04	6.6271E-04	0.186
70	510	314.0	565.2	3.713	3.272	17.509	15.427	5.7036E-04	6.0207E-04	0.180
71	511	314.2	565.6	3.382	2.980	17.504	15.423	5.1968E-04	5.4858E-04	0.180
72	512	313.1	563.5	2.449	2.158	17.528	15.445	3.7579E-04	3.9665E-04	0.282
73	513	312.1	561.7	1.551	1.366	17.549	15.463	2.3764E-04	2.5081E-04	0.452
74	514	311.1	559.2	0.264	0.232	17.591	15.500	4.0276E-05	4.2503E-05	0.958
75	515	308.7	555.6	-0.317	-0.279	17.621	15.526	-4.8359E-05	-5.1028E-05	0.217

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.345CE-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.482	16.093	15.853
PT2/PT1	5.414E-02	5.286E-02	5.207E-02
TEMP(DEG R)	2086.1	2137.3	2225.8
TT2/TT1	1.0203	1.0453	1.0886

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HI DATA TEST NO. 182 RUN NO. 75 FRAME 26 TO 51 CONSTANT SET 551

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.5127E 06	75.42	1988.30	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PDS
0.000	75.602	1987.775	0.095	0.124	672.319	-0.280	17.5850
0.070	75.420	1988.432	0.095	0.130	672.319	-0.293	17.6092
0.140	75.602	1988.038	0.095	0.194	673.295	-0.280	17.6132
0.210	75.602	1988.823	0.095	0.516	677.193	-0.280	17.6132
0.280	75.602	1988.562	0.167	1.195	789.059	-0.280	17.5366
0.350	75.602	1988.039	0.569	1.945	1237.756	-0.267	17.5688
0.420	75.420	1987.905	1.549	2.584	1506.504	-0.293	17.6092
0.490	75.602	1987.904	2.556	3.240	1767.186	-0.293	17.6132
0.560	75.602	1988.954	3.131	3.680	1833.307	-0.280	17.6132
0.630	75.602	1988.823	3.510	3.846	1895.912	-0.293	17.6092
0.700	75.602	1987.775	3.801	3.791	1926.588	-0.280	21.5475
0.770	75.420	1988.300	3.987	3.546	1957.073	-0.306	34.9158
0.840	75.602	1987.904	4.040	3.360	1968.950	-0.293	34.9359
0.910	75.420	1988.299	4.029	3.321	1968.950	-0.293	34.9359
0.980	75.602	1988.692	4.003	3.360	1982.112	-0.293	34.9279
1.050	75.785	1987.905	3.987	3.413	2005.714	-0.280	34.9238
1.120	75.602	1988.167	3.995	3.474	2014.861	-0.293	34.9279
1.190	75.602	1987.904	3.997	3.521	2027.899	-0.293	34.9359
1.260	75.602	1988.691	4.003	3.538	2020.733	-0.293	34.9359
1.330	75.602	1988.822	3.987	3.543	2033.755	-0.293	34.9279
1.400	75.602	1987.773	3.987	3.566	2037.654	-0.280	34.9279
1.470	75.420	1988.300	3.987	3.580	2046.742	-0.293	34.9279
1.540	75.602	1987.773	4.000	3.595	2058.400	-0.306	34.9359
1.610	75.602	1988.560	4.003	3.602	2051.279	-0.293	34.9319
1.680	75.602	1988.559	3.987	3.607	2049.983	-0.293	34.9238
1.750	75.602	1987.774	3.981	3.632	2057.106	-0.293	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6821E 08	5.1271E 05	0.305	5.13	1104.6	0.11653E 07	0.3048	1.000	RUN NO. 75
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.1271E 05	5.1271E 05	1.000	75.42	1988.3	501.10	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.266	0.0542	0.0542	0.0620	0.0654	39	214	0.292	0.0000	0.0000	0.0000	0.0000
2	7	0.266	0.0542	0.0542	0.0620	0.0655	40	215	0.269	-0.0002	-0.0002	-0.0002	-0.0002
3	8	0.266	0.0537	0.0537	0.0615	0.0649	41	216	0.267	0.0024	0.0024	0.0027	0.0029
4	9	0.266	0.0534	0.0534	0.0611	0.0645	42	217	0.268	0.0000	0.0000	0.0000	0.0000
5	10	0.266	0.0543	0.0543	0.0621	0.0655	43	218	0.267	0.0000	0.0000	0.0000	0.0000
6	11	0.267	0.0539	0.0539	0.0616	0.0651	44	219	0.267	0.0002	0.0002	0.0002	0.0003
7	12	0.267	0.0548	0.0548	0.0626	0.0661	45	220	0.292	0.0000	0.0000	0.0000	0.0000
8	13	0.268	0.0543	0.0543	0.0621	0.0656	46	306	0.292	-0.0000	-0.0000	-0.0001	-0.0001
9	14	0.268	0.0566	0.0566	0.0648	0.0684	47	307	0.272	0.0612	0.0612	0.0700	0.0740
10	15	0.268	0.0538	0.0538	0.0616	0.0650	48	308	0.271	0.0540	0.0540	0.0618	0.0653
11	16	0.269	0.0547	0.0547	0.0626	0.0661	49	309	0.271	0.0439	0.0439	0.0503	0.0531
12	17	0.270	0.0597	0.0597	0.0683	0.0721	50	310	0.271	0.0394	0.0394	0.0450	0.0476
13	18	0.271	0.0650	0.0650	0.0744	0.0786	51	311	0.270	0.0314	0.0314	0.0360	0.0380
14	19	0.272	0.0677	0.0677	0.0775	0.0819	52	312	0.269	0.0186	0.0186	0.0213	0.0225
15	20	0.272	0.0710	0.0710	0.0812	0.0858	53	313	0.269	0.0086	0.0086	0.0098	0.0104
16	21	0.272	0.0751	0.0751	0.0860	0.0908	54	314	0.269	0.0026	0.0026	0.0029	0.0031
17	22	0.272	0.0774	0.0774	0.0886	0.0936	55	315	0.268	0.0001	0.0001	0.0001	0.0001
18	23	0.272	0.0786	0.0786	0.0900	0.0951	56	316	0.268	-0.0006	-0.0006	-0.0007	-0.0008
19	24	0.272	0.0821	0.0821	0.0940	0.0993	57	317	0.268	0.0000	0.0000	0.0000	0.0000
20	25	0.272	0.0840	0.0840	0.0962	0.1016	58	318	0.267	-0.0002	-0.0002	-0.0003	-0.0003
21	103	0.274	0.0800	0.0800	0.0916	0.0968	59	319	0.267	0.0001	0.0001	0.0001	0.0001
22	105	0.275	0.0785	0.0785	0.0900	0.0951	60	320	0.267	-0.0000	-0.0000	-0.0000	-0.0000
23	107	0.275	0.0766	0.0766	0.0877	0.0927	61	506	0.271	0.0570	0.0570	0.0653	0.0689
24	108	0.274	0.0694	0.0694	0.0795	0.0840	62	507	0.271	0.0545	0.0545	0.0624	0.0659
25	110	0.273	0.0533	0.0533	0.0610	0.0644	63	508	0.270	0.0504	0.0504	0.0577	0.0609
26	111	0.273	0.0442	0.0442	0.0506	0.0535	64	509	0.269	0.0428	0.0428	0.0489	0.0517
27	112	0.272	0.0292	0.0292	0.0334	0.0353	65	510	0.270	0.0357	0.0357	0.0408	0.0431
28	113	0.272	0.0167	0.0167	0.0191	0.0201	66	511	0.269	0.0331	0.0331	0.0378	0.0399
29	114	0.271	0.0040	0.0040	0.0045	0.0048	67	512	0.269	0.0231	0.0231	0.0264	0.0279
30	115	0.270	0.0006	0.0006	0.0007	0.0007	68	513	0.269	0.0132	0.0132	0.0151	0.0159
31	203	0.273	0.0731	0.0731	0.0837	0.0884	69	514	0.268	0.0033	0.0033	0.0038	0.0040
32	205	0.273	0.0731	0.0731	0.0836	0.0884	70	515	0.268	-0.0000	-0.0000	-0.0000	-0.0000
33	207	0.273	0.0706	0.0706	0.0808	0.0854	71	601	0.268	0.0000	0.0000	0.0000	0.0000
34	208	0.273	0.0644	0.0644	0.0737	0.0779	72	602	0.268	0.0000	0.0000	0.0000	0.0000
35	210	0.272	0.0483	0.0483	0.0553	0.0584	73	603	0.268	-0.0000	-0.0000	-0.0000	-0.0000
36	211	0.272	0.0404	0.0404	0.0462	0.0488	74	604	0.268	0.0000	0.0000	0.0000	0.0000
37	212	0.271	0.0275	0.0275	0.0315	0.0333	75	605	0.267	0.0000	0.0000	0.0000	0.0000
38	213	0.292	-0.0000	-0.0000	-0.0000	-0.0000							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6821E 06	5.1271E 05	0.305	5.13	1104.6	0.11653E 07	0.3048	1.000	RUN NO.	75
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.1271E 05	5.1271E 05	1.000	75.42	1988.3	501.10	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	308.5	555.4	0.456	0.402	8.417	7.416	2.8727E-04	3.0333E-04	0.038
2	7	308.7	555.6	0.456	0.402	8.415	7.415	2.8740E-04	3.0347E-04	0.051
3	8	308.9	556.1	0.452	0.398	8.413	7.413	2.8479E-04	3.0072E-04	0.056
4	9	309.0	556.2	0.449	0.396	8.412	7.412	2.8299E-04	2.9882E-04	0.056
5	10	309.2	556.5	0.456	0.402	8.410	7.410	2.8760E-04	3.0370E-04	0.064
6	11	309.4	557.0	0.453	0.399	8.407	7.408	2.8562E-04	3.0161E-04	0.071
7	12	309.9	557.8	0.460	0.405	8.403	7.404	2.9022E-04	3.0647E-04	0.072
8	13	310.4	558.7	0.456	0.402	8.397	7.399	2.8776E-04	3.0389E-04	0.089
9	14	310.8	559.4	0.475	0.419	8.393	7.395	3.0006E-04	3.1689E-04	0.092
10	15	311.3	560.3	0.452	0.398	8.388	7.391	2.8536E-04	3.0138E-04	0.086
11	16	311.8	561.3	0.459	0.404	8.382	7.386	2.9004E-04	3.0633E-04	0.089
12	17	312.9	563.3	0.499	0.440	8.370	7.375	3.1623E-04	3.3402E-04	0.138
13	18	314.4	566.0	0.543	0.478	8.355	7.362	3.4453E-04	3.6396E-04	0.148
14	19	315.2	567.4	0.565	0.498	8.347	7.354	3.5919E-04	3.7947E-04	0.182
15	20	315.4	567.7	0.592	0.522	8.345	7.353	3.7623E-04	3.9747E-04	0.209
16	21	315.6	568.0	0.627	0.552	8.343	7.351	3.9827E-04	4.2076E-04	0.227
17	22	315.6	568.1	0.646	0.569	8.342	7.351	4.1057E-04	4.3376E-04	0.236
18	23	315.6	568.1	0.656	0.578	8.342	7.351	4.1686E-04	4.4040E-04	0.236
19	24	316.0	568.8	0.685	0.603	8.338	7.347	4.3542E-04	4.6002E-04	0.247
20	25	315.2	567.3	0.702	0.618	8.347	7.355	4.4560E-04	4.7075E-04	0.250
21	103	318.4	573.1	0.665	0.586	8.313	7.325	4.2413E-04	4.4818E-04	0.248
22	105	319.3	574.7	0.652	0.575	8.304	7.317	4.1662E-04	4.4027E-04	0.245
23	107	318.9	573.9	0.636	0.561	8.308	7.321	4.0616E-04	4.2920E-04	0.236
24	108	318.0	572.4	0.577	0.509	8.317	7.328	3.6803E-04	3.8889E-04	0.150
25	110	317.0	570.6	0.444	0.391	8.328	7.338	2.8244E-04	2.9842E-04	0.110
26	111	316.6	569.9	0.368	0.325	8.332	7.341	2.3443E-04	2.4769E-04	0.196
27	112	315.7	568.3	0.243	0.214	8.341	7.350	1.5474E-04	1.6348E-04	0.441
28	113	315.1	567.1	0.139	0.123	8.348	7.356	8.8330E-05	9.3315E-05	0.613
29	114	314.0	565.2	0.033	0.029	8.359	7.365	2.0996E-05	2.2179E-05	0.738
30	115	313.0	563.4	0.005	0.004	8.370	7.375	3.1543E-06	3.3318E-06	0.070
31	203	316.5	569.6	0.609	0.537	8.333	7.343	3.8750E-04	4.0941E-04	0.220
32	205	317.0	570.7	0.603	0.536	8.327	7.337	3.8741E-04	4.0934E-04	0.221
33	207	316.9	570.4	0.588	0.518	8.329	7.339	3.7416E-04	3.9533E-04	0.220
34	208	316.3	569.4	0.536	0.473	8.335	7.344	3.4130E-04	3.6059E-04	0.143
35	210	315.5	567.8	0.403	0.355	8.344	7.352	2.5596E-04	2.7042E-04	0.063
36	211	315.1	567.2	0.337	0.297	8.347	7.355	2.1415E-04	2.2623E-04	0.175
37	212	314.4	566.0	0.230	0.203	8.355	7.362	1.4585E-04	1.5408E-04	0.417
38	213	338.7	609.7	-0.000	-0.000	8.100	7.137	-2.7616E-14	-2.9229E-14	*******
39	214	338.7	609.7	0.000	0.000	8.100	7.137	1.1403E-16	1.2069E-16	*******
40	215	312.5	562.4	-0.001	-0.001	8.375	7.380	-8.5115E-07	-8.9900E-07	1.542
41	216	310.0	558.0	0.020	0.018	8.401	7.403	1.2643E-05	1.3351E-05	1.708
42	217	310.4	558.8	0.000	0.000	8.397	7.399	1.4990E-07	1.5830E-07	28.985
43	218	310.1	558.2	0.000	0.000	8.400	7.401	5.0611E-08	5.3447E-08	70.544
44	219	310.2	558.4	0.002	0.002	8.399	7.401	1.1106E-06	1.1728E-06	2.407
45	220	338.7	609.7	0.000	0.000	8.100	7.137	1.1293E-16	1.1953E-16	*******
46	305	338.7	609.7	-0.000	-0.000	8.100	7.137	-2.5040E-07	-2.6502E-07	1.869
47	307	315.4	567.7	0.411	0.450	8.345	7.353	3.2442E-04	3.4273E-04	0.158
48	308	314.9	566.8	0.451	0.397	8.350	7.357	2.8630E-04	3.0245E-04	0.045
49	309	314.4	565.9	0.367	0.323	8.355	7.362	2.3286E-04	2.4599E-04	-0.026
50	310	314.0	565.3	0.329	0.290	8.359	7.365	2.0865E-04	2.2041E-04	0.048
51	311	313.4	564.1	0.263	0.232	8.365	7.371	1.6656E-04	1.7594E-04	0.192
52	312	312.4	562.2	0.156	0.138	8.376	7.381	9.8760E-05	1.0431E-04	0.557
53	313	311.5	560.8	0.072	0.063	8.385	7.388	4.5429E-05	4.7980E-05	0.722
54	314	311.9	561.4	0.022	0.019	8.382	7.385	1.3609E-05	1.4373E-05	1.154
55	315	311.4	560.5	0.001	0.001	8.386	7.390	5.4934E-07	5.8018E-07	6.993
56	316	310.9	559.7	-0.005	-0.005	8.391	7.394	-3.3315E-06	-3.5184E-06	-0.067
57	317	310.5	558.9	0.000	0.000	8.396	7.398	2.0022E-07	2.1145E-07	13.517
58	318	310.3	558.6	-0.002	-0.002	8.398	7.400	-1.2111E-06	-1.2790E-06	-0.367
59	319	310.1	558.3	0.000	0.000	8.400	7.401	3.0347E-07	3.2048E-07	13.922
60	320	310.1	558.2	-0.000	-0.000	8.400	7.402	-1.0126E-07	-1.0693E-07	-24.613
61	505	314.2	565.6	0.477	0.420	8.357	7.364	3.0228E-04	3.1932E-04	0.118
62	507	313.9	564.9	0.456	0.401	8.361	7.367	2.8892E-04	3.0520E-04	0.072
63	508	313.2	563.7	0.422	0.372	8.368	7.373	2.6726E-04	2.8230E-04	0.005
64	509	312.1	561.9	0.358	0.316	8.379	7.383	2.2669E-04	2.3943E-04	-0.052
65	510	312.7	562.8	0.299	0.263	8.373	7.378	1.8906E-04	1.9969E-04	-0.061
66	511	312.5	562.5	0.277	0.244	8.375	7.380	1.7521E-04	1.8506E-04	0.048
67	512	312.1	561.7	0.194	0.171	8.380	7.384	1.2245E-04	1.2933E-04	0.399
68	513	311.8	561.2	0.111	0.097	8.382	7.386	6.9919E-05	7.3847E-05	0.585
69	514	311.1	560.0	0.028	0.024	8.390	7.393	1.7553E-05	1.8538E-05	0.869
70	515	310.4	558.7	-0.000	-0.000	8.397	7.399	-1.9936E-07	-2.1053E-07	-3.684
71	601	311.4	560.5	0.000	0.000	8.387	7.390	0.0000E-39	0.0000E-39	-2.176
72	602	311.1	560.1	0.000	0.000	8.389	7.392	0.0000E-39	0.0000E-39	1.309
73	603	310.7	559.2	-0.000	-0.000	8.394	7.396	-0.0000E-39	-0.0000E-39	0.642
74	604	310.5	558.9	0.000	0.000	8.396	7.398	0.0000E-39	0.0000E-39	4.387
75	605	309.7	557.4	0.000	0.000	8.405	7.406	0.0000E-39	0.0000E-39	1.739

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3521E-01 (SLUGS/FT2-SEC)

1360618

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

Run 75

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.767	3.981	3.532
PT2/PT1	4.994E-02	5.279E-02	4.816E-02
TEMP(DEG R)	2008.3	2057.1	2099.0
TT2/TT1	1.0101	1.0346	1.0557

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 76 FRAME 26 TO 51 CONSTANT SET 551

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9690E 06	150.01	2049.47	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	150.012	2049.736	0.159	0.213	713.640	-0.280	17.6052
0.070	149.463	2049.226	0.154	0.221	710.800	-0.293	17.6052
0.140	150.012	2049.733	0.157	0.324	714.586	-0.293	17.6132
0.210	149.463	2049.992	0.165	0.955	724.940	-0.280	17.6132
0.280	150.012	2050.508	0.262	2.428	865.936	-0.293	17.6092
0.350	150.012	2049.344	1.065	3.919	1417.784	-0.280	17.6052
0.420	150.012	2049.475	3.104	5.281	1757.575	-0.293	17.6092
0.490	150.012	2050.122	5.170	6.727	1885.867	-0.306	17.6132
0.560	150.012	2050.512	6.353	7.700	1971.585	-0.306	17.6132
0.630	150.012	2049.994	7.211	8.042	2037.035	-0.293	17.6132
0.700	150.012	2049.226	7.820	7.918	2063.573	-0.293	7.0211
0.770	150.012	2048.837	8.138	7.486	2089.355	-0.306	34.8714
0.840	150.012	2049.347	8.210	7.160	2105.401	-0.306	34.8835
0.910	150.012	2049.469	8.165	7.088	2105.431	-0.293	34.9158
0.980	150.195	2050.382	8.085	7.194	2105.431	-0.293	34.9238
1.050	150.012	2049.346	8.053	7.336	2108.604	-0.306	34.9198
1.120	149.463	2048.836	8.032	7.444	2117.562	-0.293	34.9238
1.190	150.012	2049.338	8.056	7.514	2127.779	-0.306	34.9319
1.260	150.012	2049.597	8.059	7.555	2140.523	-0.306	34.9279
1.330	150.012	2050.120	8.069	7.589	2137.340	-0.306	34.9319
1.400	150.195	2049.341	8.072	7.616	2143.704	-0.293	34.9238
1.470	150.012	2048.701	8.077	7.644	2148.790	-0.293	34.9238
1.540	150.012	2048.825	8.080	7.672	2147.519	-0.306	34.9279
1.610	150.012	2049.211	8.075	7.694	2160.214	-0.306	34.9279
1.680	150.012	2050.381	8.085	7.717	2160.848	-0.293	34.9279
1.750	150.012	2048.442	8.085	7.728	2152.115	-0.306	34.9238

300

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.1791E 06	9.6898E 05	0.305	10.20	1138.6	0.12047E 07	0.3048	1.000	RUN NO.	76
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.6898E 05	9.6898E 05	1.000	150.01	2049.5	518.03	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.260	0.1768	0.1768	0.2019	0.2131	39	214	0.282	0.0000	0.0000	0.0000	0.0000
2	7	0.261	0.1451	0.1451	0.1657	0.1749	40	215	0.263	-0.0004	-0.0004	-0.0005	-0.0005
3	8	0.261	0.1162	0.1162	0.1327	0.1401	41	216	0.264	-0.0011	-0.0011	-0.0013	-0.0014
4	9	0.261	0.0946	0.0945	0.1081	0.1140	42	217	0.261	-0.0004	-0.0004	-0.0004	-0.0004
5	10	0.261	0.0789	0.0789	0.0901	0.0951	43	218	0.260	-0.0005	-0.0005	-0.0005	-0.0006
6	11	0.262	0.0605	0.0605	0.0692	0.0730	44	219	0.260	-0.0010	-0.0010	-0.0012	-0.0012
7	12	0.262	0.0560	0.0560	0.0640	0.0675	45	220	0.260	-0.0003	-0.0003	-0.0003	-0.0003
8	13	0.263	0.0481	0.0481	0.0549	0.0580	46	306	0.282	-0.0000	-0.0000	-0.0000	-0.0000
9	14	0.263	0.0472	0.0472	0.0539	0.0569	47	307	0.267	0.0513	0.0513	0.0586	0.0619
10	15	0.253	0.0469	0.0469	0.0536	0.0566	48	308	0.267	0.0484	0.0484	0.0554	0.0585
11	16	0.264	0.0479	0.0479	0.0548	0.0578	49	309	0.266	0.0417	0.0417	0.0477	0.0503
12	17	0.265	0.0553	0.0553	0.0632	0.0667	50	310	0.266	0.0375	0.0375	0.0428	0.0452
13	18	0.266	0.0598	0.0593	0.0684	0.0722	51	311	0.265	0.0300	0.0300	0.0343	0.0362
14	19	0.267	0.0606	0.0606	0.0693	0.0732	52	312	0.263	0.0155	0.0155	0.0177	0.0187
15	20	0.267	0.0623	0.0623	0.0712	0.0752	53	313	0.263	0.0086	0.0086	0.0098	0.0104
16	21	0.267	0.0666	0.0665	0.0762	0.0805	54	314	0.263	0.0027	0.0027	0.0030	0.0032
17	22	0.267	0.0680	0.0680	0.0778	0.0821	55	315	0.262	0.0011	0.0011	0.0012	0.0013
18	23	0.267	0.0697	0.0697	0.0797	0.0841	56	316	0.261	0.0009	0.0009	0.0011	0.0011
19	24	0.268	0.0730	0.0730	0.0834	0.0881	57	317	0.261	0.0011	0.0011	0.0012	0.0013
20	25	0.267	0.0721	0.0721	0.0824	0.0870	58	318	0.260	0.0005	0.0005	0.0006	0.0006
21	103	0.271	0.0691	0.0691	0.0790	0.0835	59	319	0.260	0.0012	0.0012	0.0014	0.0015
22	105	0.273	0.0676	0.0676	0.0773	0.0817	60	320	0.260	0.0009	0.0009	0.0010	0.0011
23	107	0.272	0.0659	0.0659	0.0754	0.0797	61	506	0.267	0.0478	0.0478	0.0546	0.0577
24	108	0.271	0.0608	0.0608	0.0696	0.0735	62	507	0.256	0.0463	0.0463	0.0530	0.0559
25	110	0.270	0.0487	0.0487	0.0557	0.0589	63	508	0.265	0.0449	0.0449	0.0513	0.0542
26	111	0.269	0.0414	0.0414	0.0474	0.0501	64	509	0.264	0.0361	0.0361	0.0413	0.0436
27	112	0.268	0.0296	0.0296	0.0338	0.0357	65	510	0.264	0.0323	0.0323	0.0369	0.0389
28	113	0.267	0.0185	0.0185	0.0212	0.0224	66	511	0.264	0.0327	0.0327	0.0374	0.0395
29	114	0.265	0.0067	0.0067	0.0077	0.0081	67	512	0.264	0.0248	0.0248	0.0283	0.0299
30	115	0.264	0.0016	0.0016	0.0019	0.0020	68	513	0.263	0.0158	0.0158	0.0181	0.0191
31	203	0.269	0.0629	0.0629	0.0720	0.0760	69	514	0.262	0.0028	0.0028	0.0032	0.0034
32	205	0.270	0.0626	0.0625	0.0716	0.0756	70	515	0.261	-0.0002	-0.0002	-0.0002	-0.0002
33	207	0.269	0.0610	0.0610	0.0698	0.0737	71	601	0.262	-0.0000	-0.0000	-0.0000	-0.0000
34	208	0.268	0.0564	0.0564	0.0645	0.0681	72	602	0.261	0.0000	0.0000	0.0000	0.0000
35	210	0.267	0.0445	0.0445	0.0508	0.0537	73	603	0.261	-0.0000	-0.0000	-0.0000	-0.0000
36	211	0.267	0.0372	0.0372	0.0425	0.0449	74	604	0.260	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.266	0.0257	0.0257	0.0294	0.0311	75	605	0.259	-0.0000	-0.0000	-0.0000	-0.0000
38	213	0.282	-0.0001	-0.0001	-0.0001	-0.0001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	XS(METER)	MAW/MT	TEST NO.	192
5.10	9.1791E 06	9.6898E 05	0.305	10.20	1136.6	0.12047E 07	0.3048	1.000	RUN NO.	76
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	MAW/MT		
5.10	9.6898E 05	9.6898E 05	1.000	150.01	2049.5	518.03	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	312.2	562.0	2.185	1.925	12.359	10.890	6.7834E-04	7.1592E-04	0.345
2	7	312.5	562.5	1.793	1.580	12.355	10.886	5.5687E-04	5.8774E-04	0.317
3	8	312.9	563.2	1.435	1.264	12.349	10.881	4.4594E-04	4.7067E-04	0.276
4	9	313.1	563.7	1.168	1.029	12.345	10.878	3.6304E-04	3.8318E-04	0.227
5	10	313.5	564.3	0.973	0.858	12.340	10.873	3.0270E-04	3.1950E-04	0.170
6	11	313.9	565.0	0.747	0.658	12.334	10.868	2.3236E-04	2.4527E-04	0.055
7	12	314.3	565.8	0.690	0.608	12.328	10.862	2.1494E-04	2.2689E-04	0.039
8	13	314.9	566.8	0.592	0.522	12.319	10.855	1.8443E-04	1.9468E-04	-0.021
9	14	315.3	567.5	0.581	0.512	12.313	10.850	1.8105E-04	1.9112E-04	-0.040
10	15	315.7	568.3	0.577	0.508	12.307	10.844	1.7993E-04	1.9001E-04	-0.005
11	16	316.3	569.3	0.590	0.520	12.299	10.837	1.8403E-04	1.9428E-04	0.032
12	17	317.6	571.6	0.679	0.598	12.279	10.820	2.1232E-04	2.2417E-04	0.117
13	18	319.2	574.6	0.733	0.646	12.255	10.798	2.2964E-04	2.4248E-04	0.118
14	19	320.0	576.0	0.742	0.654	12.243	10.788	2.3266E-04	2.4568E-04	0.126
15	20	320.1	576.2	0.762	0.672	12.241	10.786	2.3914E-04	2.5254E-04	0.140
16	21	320.5	576.9	0.815	0.719	12.236	10.782	2.5591E-04	2.7025E-04	0.169
17	22	320.8	577.4	0.832	0.733	12.232	10.778	2.6120E-04	2.7584E-04	0.169
18	23	320.8	577.4	0.852	0.751	12.232	10.778	2.6752E-04	2.8252E-04	0.169
19	24	321.3	578.3	0.892	0.786	12.224	10.771	2.8020E-04	2.9591E-04	0.188
20	25	320.2	576.3	0.882	0.777	12.241	10.786	2.7680E-04	2.9230E-04	0.179
21	103	325.4	585.6	0.840	0.740	12.164	10.718	2.6530E-04	2.8027E-04	0.192
22	105	326.9	588.4	0.820	0.723	12.141	10.698	2.5959E-04	2.7426E-04	0.184
23	107	326.2	587.1	0.801	0.705	12.151	10.707	2.5313E-04	2.6742E-04	0.171
24	108	324.8	584.7	0.740	0.652	12.172	10.725	2.3354E-04	2.4571E-04	0.079
25	110	323.3	582.0	0.594	0.524	12.194	10.745	1.8715E-04	1.9767E-04	-0.002
26	111	322.6	580.7	0.506	0.446	12.205	10.754	1.5913E-04	1.6808E-04	0.049
27	112	321.2	578.1	0.362	0.319	12.226	10.773	1.1358E-04	1.1995E-04	0.241
28	113	320.0	576.1	0.227	0.200	12.243	10.788	7.1095E-05	7.5076E-05	0.371
29	114	318.2	572.8	0.082	0.073	12.270	10.812	2.5793E-05	2.7233E-05	0.532
30	115	316.6	569.9	0.020	0.018	12.294	10.832	6.2556E-06	6.6043E-06	0.283
31	203	322.5	580.4	0.768	0.677	12.207	10.756	2.4164E-04	2.5521E-04	0.140
32	205	323.5	582.3	0.763	0.672	12.192	10.743	2.4040E-04	2.5392E-04	0.147
33	207	322.4	580.4	0.744	0.656	12.207	10.756	2.3421E-04	2.4736E-04	0.178
34	208	321.8	579.3	0.688	0.607	12.216	10.764	2.1642E-04	2.2856E-04	0.076
35	210	320.5	576.9	0.544	0.479	12.236	10.781	1.7073E-04	1.8030E-04	-0.012
36	211	320.0	576.0	0.455	0.401	12.243	10.788	1.4275E-04	1.5074E-04	0.051
37	212	319.0	574.1	0.316	0.278	12.259	10.802	9.8861E-05	1.0439E-04	0.245
38	213	338.7	609.7	-0.001	-0.001	11.966	10.544	-2.0411E-07	-2.1584E-07	1.244
39	214	338.7	609.7	0.000	0.000	11.966	10.544	3.0404E-16	3.2151E-16	*******
40	215	315.6	568.1	-0.005	-0.005	12.309	10.846	-1.5999E-06	-1.6889E-06	0.988
41	216	312.8	563.1	-0.014	-0.012	12.350	10.882	-4.3724E-06	-4.6149E-06	-0.910
42	217	312.6	562.6	-0.004	-0.004	12.354	10.885	-1.3762E-06	-1.4525E-06	-3.782
43	218	311.9	561.4	-0.006	-0.005	12.364	10.894	-1.7849E-06	-1.8838E-06	-1.411
44	219	311.7	561.1	-0.013	-0.011	12.366	10.896	-3.9659E-06	-4.1855E-06	-0.362
45	220	311.9	561.5	-0.003	-0.003	12.363	10.894	-1.0169E-06	-1.0732E-06	-4.476
46	306	338.7	609.7	-0.000	-0.000	11.966	10.543	-1.4713E-07	-1.5558E-07	1.288
47	307	320.8	577.5	0.627	0.552	12.231	10.777	1.9684E-04	2.0788E-04	0.091
48	308	319.9	575.8	0.593	0.522	12.245	10.789	1.8594E-04	1.9635E-04	-0.033
49	309	319.0	574.2	0.511	0.450	12.258	10.801	1.6006E-04	1.6901E-04	-0.104
50	310	318.5	573.3	0.459	0.405	12.265	10.807	1.4383E-04	1.5187E-04	-0.033
51	311	317.6	571.7	0.368	0.325	12.279	10.819	1.1517E-04	1.2160E-04	0.117
52	312	315.9	568.6	0.191	0.168	12.304	10.842	5.9606E-05	6.2925E-05	0.343
53	313	314.9	566.8	0.106	0.093	12.319	10.855	3.2951E-05	3.4783E-05	0.569
54	314	315.1	567.1	0.033	0.029	12.317	10.853	1.0185E-05	1.0752E-05	1.154
55	315	314.1	565.4	0.013	0.012	12.331	10.865	4.0813E-06	4.3079E-06	2.211
56	316	313.3	563.9	0.011	0.010	12.343	10.876	3.5735E-06	3.7717E-06	2.638
57	317	312.7	562.8	0.013	0.012	12.352	10.884	4.1174E-06	4.3457E-06	2.444
58	318	312.3	562.2	0.007	0.006	12.358	10.889	2.0582E-06	2.1722E-06	3.192
59	319	312.1	561.7	0.015	0.013	12.361	10.892	4.7112E-06	4.9722E-06	2.754
60	320	311.9	561.4	0.011	0.010	12.364	10.894	3.4216E-06	3.6111E-06	3.794
61	505	319.8	575.6	0.585	0.516	12.247	10.791	1.8349E-04	1.9376E-04	0.064
62	507	319.1	574.4	0.568	0.500	12.257	10.800	1.7784E-04	1.8778E-04	0.046
63	508	317.9	572.3	0.551	0.485	12.274	10.815	1.7231E-04	1.8193E-04	-0.048
64	509	316.2	569.1	0.444	0.391	12.300	10.838	1.3858E-04	1.4630E-04	-0.267
65	510	317.2	570.9	0.396	0.349	12.285	10.825	1.2389E-04	1.3079E-04	-0.236
66	511	317.0	570.6	0.402	0.354	12.288	10.827	1.2554E-04	1.3254E-04	-0.053
67	512	316.4	569.6	0.305	0.269	12.296	10.835	9.5208E-05	1.0051E-04	0.306
68	513	315.8	568.4	0.195	0.171	12.306	10.843	6.0691E-05	6.4070E-05	0.495
69	514	314.6	566.2	0.035	0.031	12.324	10.859	1.0822E-05	1.1423E-05	0.885
70	515	313.5	564.2	-0.003	-0.002	12.340	10.873	-7.8738E-07	-8.3107E-07	-2.679
71	601	313.1	563.4	-0.000	-0.000	12.331	10.865	-0.0000E-39	-0.0000E-39	176.925
72	602	313.3	564.0	0.000	0.000	12.342	10.875	0.0000E-39	0.0000E-39	-10.406
73	603	312.6	562.6	-0.000	-0.000	12.354	10.885	-0.0000E-39	-0.0000E-39	-7.326
74	604	312.1	561.8	-0.000	-0.000	12.360	10.891	-0.0000E-39	-0.0000E-39	0.208
75	605	311.1	560.1	-0.000	-0.000	12.375	10.904	-0.0000E-39	-0.0000E-39	-0.823

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6289E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

RUN 76

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.878	8.085	7.728
PT2/PT1	5.252E-02	5.390E-02	5.151E-02
TEMP(DEG R)	2090.0	2162.1	2219.5
TT2/TT1	1.0198	1.0550	1.0830

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 77 FRAME 25 TO 52 CONSTANT SET 551

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.1957E 07	304.22	2054.44	1.0000

T(SEC)	PI(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	303.667	2054.835	0.292	0.392	761.938	-0.293	17.6092
0.070	303.850	2054.056	0.292	0.420	761.025	-0.293	17.6052
0.140	303.850	2054.187	0.284	0.612	763.762	-0.306	17.6052
0.210	303.850	2054.058	0.300	1.969	782.776	-0.319	17.5810
0.280	303.850	2055.095	0.506	5.166	999.430	-0.306	17.5325
0.350	303.850	2055.351	2.394	8.196	1555.552	-0.293	17.5850
0.420	304.032	2054.184	6.863	11.096	1843.457	-0.293	17.5769
0.490	304.032	2054.054	11.020	13.882	1974.877	-0.306	17.5688
0.560	304.032	2054.444	13.413	15.522	2034.405	-0.319	17.5850
0.630	304.032	2054.574	14.991	15.951	2077.770	-0.319	17.5608
0.700	304.032	2054.830	15.979	15.592	2101.555	-0.306	33.0879
0.770	304.215	2054.570	16.342	14.975	2123.312	-0.293	34.8835
0.840	304.032	2054.315	16.302	14.633	2135.429	-0.319	34.8996
0.910	304.215	2054.442	16.178	14.633	2124.589	-0.319	34.9077
0.980	304.032	2054.697	16.088	14.822	2130.968	-0.306	34.9238
1.050	304.215	2055.088	16.058	15.036	2137.340	-0.306	34.9279
1.120	304.398	2054.828	16.045	15.200	2143.704	-0.306	34.8956
1.190	304.215	2054.438	16.037	15.272	2134.792	-0.306	34.9077
1.260	304.215	2054.569	16.051	15.356	2150.060	-0.319	34.9238
1.330	304.032	2054.697	16.064	15.435	2154.505	-0.319	34.9279
1.400	304.215	2054.826	16.074	15.522	2156.409	-0.306	34.9238
1.470	304.398	2054.567	16.074	15.631	2149.425	-0.306	34.8875
1.540	304.215	2054.044	16.064	15.647	2148.790	-0.306	34.8996
1.610	304.215	2053.915	16.090	15.678	2158.946	-0.319	34.9117
1.680	304.398	2054.438	16.143	15.717	2152.600	-0.306	34.9238
1.750	304.215	2054.828	16.141	15.739	2165.917	-0.319	34.9198
1.820	304.398	2054.698	16.090	15.756	2148.790	-0.306	34.9117
1.890	304.398	2054.178	16.056	15.786	2156.409	-0.293	34.9077

304

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)		RS(METER)	HAW/HT	TEST NO. 182
5.10	5.4206E 06	1.9570E 06	0.305	20.69	1141.4	0.12079E 07		0.3048	1.000	RUN NO. 77
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)		RS(FT)	HAW/HT	
5.10	1.9570E 06	1.9570E 06	1.000	304.22	2054.4	519.41		1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.262	0.2915	0.2915	0.3330	0.3515	39	214	0.282	-0.0000	-0.0000	-0.0000	-0.0000
2	7	0.262	0.2933	0.2933	0.3352	0.3538	40	215	0.261	0.0057	0.0057	0.0066	0.0069
3	8	0.263	0.2931	0.2931	0.3349	0.3535	41	216	0.257	0.0004	0.0004	0.0005	0.0005
4	9	0.263	0.3025	0.3025	0.3456	0.3648	42	217	0.257	-0.0004	-0.0004	-0.0004	-0.0004
5	10	0.263	0.3341	0.3341	0.3817	0.4030	43	218	0.256	-0.0001	-0.0001	-0.0001	-0.0001
6	11	0.263	0.3381	0.3381	0.3863	0.4078	44	219	0.256	-0.0007	-0.0007	-0.0008	-0.0008
7	12	0.263	0.3339	0.3339	0.3816	0.4029	45	220	0.256	-0.0007	-0.0007	-0.0008	-0.0008
8	13	0.264	0.3105	0.3105	0.3548	0.3746	46	306	0.282	0.0000	0.0000	0.0001	0.0001
9	14	0.264	0.3137	0.3137	0.3585	0.3785	47	307	0.269	0.0611	0.0611	0.0699	0.0738
10	15	0.264	0.2895	0.2895	0.3309	0.3493	48	308	0.267	0.0861	0.0861	0.0984	0.1040
11	16	0.264	0.2791	0.2791	0.3190	0.3368	49	309	0.266	0.0912	0.0912	0.1043	0.1101
12	17	0.266	0.2569	0.2569	0.2936	0.3101	50	310	0.265	0.0899	0.0899	0.1028	0.1085
13	18	0.268	0.1525	0.1525	0.1744	0.1842	51	311	0.263	0.0819	0.0819	0.0936	0.0988
14	19	0.269	0.0888	0.0888	0.1016	0.1073	52	312	0.261	0.0669	0.0669	0.0765	0.0807
15	20	0.269	0.0633	0.0633	0.0724	0.0765	53	313	0.259	0.0543	0.0543	0.0620	0.0655
16	21	0.269	0.0656	0.0655	0.0751	0.0793	54	314	0.260	0.0283	0.0283	0.0323	0.0341
17	22	0.269	0.0653	0.0653	0.0747	0.0789	55	315	0.259	0.0123	0.0123	0.0140	0.0148
18	23	0.269	0.0675	0.0675	0.0773	0.0816	56	316	0.258	0.0062	0.0062	0.0070	0.0074
19	24	0.270	0.0680	0.0680	0.0779	0.0822	57	317	0.258	0.0025	0.0025	0.0028	0.0030
20	25	0.269	0.0639	0.0639	0.0731	0.0772	58	318	0.257	0.0008	0.0008	0.0009	0.0010
21	103	0.275	0.0640	0.0640	0.0733	0.0775	59	319	0.257	0.0006	0.0006	0.0006	0.0007
22	105	0.277	0.0631	0.0631	0.0722	0.0764	60	320	0.257	-0.0007	-0.0007	-0.0008	-0.0008
23	107	0.276	0.0606	0.0605	0.0694	0.0733	61	506	0.268	0.1014	0.1014	0.1160	0.1225
24	108	0.274	0.0547	0.0547	0.0626	0.0662	62	507	0.257	0.1341	0.1341	0.1534	0.1620
25	110	0.272	0.0434	0.0434	0.0496	0.0524	63	508	0.265	0.1674	0.1674	0.1914	0.2021
26	111	0.271	0.0376	0.0376	0.0430	0.0455	64	509	0.263	0.1726	0.1726	0.1972	0.2082
27	112	0.269	0.0279	0.0279	0.0319	0.0337	65	510	0.264	0.1706	0.1706	0.1950	0.2058
28	113	0.267	0.0190	0.0190	0.0217	0.0229	66	511	0.254	0.1681	0.1681	0.1922	0.2029
29	114	0.265	0.0073	0.0073	0.0084	0.0088	67	512	0.263	0.1527	0.1527	0.1744	0.1842
30	115	0.263	0.0024	0.0024	0.0028	0.0029	68	513	0.262	0.1282	0.1282	0.1464	0.1545
31	203	0.271	0.0566	0.0566	0.0648	0.0685	69	514	0.261	0.0738	0.0738	0.0843	0.0890
32	205	0.272	0.0553	0.0553	0.0632	0.0668	70	515	0.259	0.0381	0.0381	0.0435	0.0459
33	207	0.271	0.0544	0.0544	0.0622	0.0657	71	601	0.260	0.0000	0.0000	0.0000	0.0000
34	208	0.270	0.0566	0.0566	0.0648	0.0684	72	602	0.258	0.0000	0.0000	0.0000	0.0000
35	210	0.268	0.0518	0.0518	0.0593	0.0626	73	603	0.257	-0.0000	-0.0000	-0.0000	-0.0000
36	211	0.268	0.0480	0.0480	0.0549	0.0580	74	604	0.256	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.266	0.0389	0.0389	0.0444	0.0469	75	605	0.255	-0.0000	-0.0000	-0.0000	-0.0000
38	213	0.262	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	5.4206E 06	1.9570E 06	0.305	20.69	1141.4	0.12979E 07	0.3048	1.000	RUN NO.	77
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9570E 06	1.9570E 05	1.000	304.22	2054.4	519.41	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	315.4	567.7	5.129	4.519	17.596	15.504	7.8697E-04	8.3071E-04	0.300
2	7	315.6	568.1	5.160	4.547	17.590	15.500	7.9201E-04	8.3604E-04	0.305
3	8	316.0	568.7	5.154	4.541	17.584	15.494	7.9138E-04	8.3540E-04	0.308
4	9	316.0	568.8	5.318	4.686	17.582	15.493	8.1667E-04	8.6210E-04	0.318
5	10	316.4	569.5	5.871	5.173	17.574	15.485	9.0205E-04	9.5225E-04	0.351
6	11	316.6	569.9	5.940	5.234	17.570	15.481	9.1283E-04	9.6364E-04	0.355
7	12	316.9	570.3	5.866	5.168	17.565	15.477	9.0173E-04	9.5191E-04	0.330
8	13	317.3	571.2	5.450	4.802	17.555	15.468	8.3832E-04	8.8504E-04	0.306
9	14	317.5	571.6	5.505	4.851	17.550	15.464	8.4702E-04	8.9424E-04	0.289
10	15	317.8	572.0	5.079	4.475	17.545	15.460	7.8173E-04	8.2532E-04	0.303
11	16	318.0	572.4	4.896	4.314	17.540	15.455	7.5382E-04	7.9586E-04	0.295
12	17	319.7	575.4	4.496	3.962	17.505	15.424	6.9372E-04	7.3250E-04	0.313
13	18	322.4	580.4	2.660	2.344	17.447	15.373	4.1195E-04	4.3507E-04	0.201
14	19	323.3	581.9	1.549	1.364	17.429	15.357	2.4004E-04	2.5353E-04	0.129
15	20	323.2	581.8	1.104	0.972	17.430	15.358	1.7107E-04	1.8068E-04	0.047
16	21	323.4	582.2	1.144	1.008	17.426	15.354	1.7730E-04	1.8726E-04	0.061
17	22	324.0	583.2	1.137	1.002	17.414	15.344	1.7642E-04	1.8634E-04	0.063
18	23	324.0	583.3	1.176	1.036	17.413	15.343	1.8248E-04	1.9274E-04	0.083
19	24	324.7	584.5	1.184	1.043	17.398	15.330	1.8386E-04	1.9421E-04	0.086
20	25	323.2	581.8	1.114	0.982	17.430	15.358	1.7270E-04	1.8240E-04	0.039
21	103	330.5	594.9	1.106	0.974	17.276	15.222	1.7302E-04	1.8283E-04	0.079
22	105	332.6	598.6	1.087	0.958	17.232	15.184	1.7052E-04	1.8022E-04	0.074
23	107	331.3	596.4	1.045	0.921	17.259	15.207	1.6373E-04	1.7303E-04	0.063
24	108	329.2	592.5	0.947	0.834	17.305	15.248	1.4786E-04	1.5623E-04	-0.051
25	110	326.7	588.0	0.753	0.663	17.357	15.294	1.1721E-04	1.2382E-04	-0.179
26	111	325.5	585.9	0.654	0.576	17.382	15.316	1.0161E-04	1.0733E-04	-0.138
27	112	323.2	581.8	0.486	0.428	17.430	15.359	7.5260E-05	7.9488E-05	0.004
28	113	321.4	578.4	0.332	0.292	17.469	15.393	5.1277E-05	5.4150E-05	0.114
29	114	318.4	573.1	0.128	0.113	17.532	15.448	1.9757E-05	2.0859E-05	0.103
30	115	315.9	568.6	0.043	0.038	17.585	15.494	6.5438E-06	6.9078E-06	-0.082
31	203	325.8	586.5	0.984	0.867	17.375	15.309	1.5303E-04	1.6166E-04	0.001
32	205	327.4	589.4	0.958	0.844	17.341	15.280	1.4933E-04	1.5777E-04	0.010
33	207	326.4	587.6	0.944	0.832	17.362	15.299	1.4692E-04	1.5521E-04	0.039
34	208	325.1	585.1	0.984	0.867	17.391	15.324	1.5294E-04	1.6156E-04	-0.053
35	210	322.8	581.1	0.904	0.796	17.439	15.366	1.4004E-04	1.4790E-04	-0.187
36	211	321.8	579.3	0.839	0.739	17.459	15.384	1.2977E-04	1.3705E-04	-0.156
37	212	320.1	576.1	0.680	0.599	17.497	15.417	1.0493E-04	1.1080E-04	-0.049
38	213	338.7	609.7	-0.000	-0.000	17.103	15.070	-7.5269E-08	-7.9590E-08	1.497
39	214	338.7	609.7	-0.000	-0.000	17.103	15.070	-6.7152E-17	-7.1006E-17	*******
40	215	314.3	565.7	0.101	0.089	17.619	15.524	1.5513E-05	1.6374E-05	-0.026
41	216	309.1	556.3	0.007	0.007	17.730	15.622	1.1342E-06	1.1967E-06	-0.309
42	217	309.2	556.6	-0.006	-0.006	17.726	15.619	-9.7728E-07	-1.0311E-06	0.058
43	218	308.3	554.9	-0.002	-0.002	17.746	15.636	-2.6782E-07	-2.8257E-07	-6.527
44	219	308.1	554.6	-0.012	-0.011	17.750	15.640	-1.8261E-06	-1.9265E-06	-1.334
45	220	308.0	554.3	-0.012	-0.011	17.753	15.643	-1.8628E-06	-1.9653E-06	-1.348
46	306	338.7	609.7	0.001	0.001	17.103	15.070	1.2085E-07	1.2779E-07	1.384
47	307	323.3	582.0	1.064	0.938	17.428	15.356	1.6499E-04	1.7426E-04	-0.071
48	308	321.7	579.0	1.503	1.325	17.463	15.387	2.3254E-04	2.4558E-04	-0.042
49	309	319.9	575.9	1.597	1.407	17.499	15.419	2.4642E-04	2.6020E-04	-0.072
50	310	318.8	573.9	1.575	1.388	17.523	15.440	2.4280E-04	2.5636E-04	-0.039
51	311	316.7	570.1	1.438	1.267	17.567	15.479	2.2110E-04	2.3341E-04	-0.029
52	312	314.0	565.1	1.180	1.040	17.626	15.531	1.8072E-04	1.9075E-04	0.225
53	313	311.4	560.4	0.961	0.846	17.681	15.579	1.4664E-04	1.5474E-04	0.341
54	314	312.6	562.7	0.499	0.440	17.654	15.556	7.6348E-05	8.0575E-05	0.435
55	315	311.8	561.2	0.217	0.192	17.672	15.571	3.3200E-05	3.5036E-05	0.434
56	316	310.8	559.4	0.109	0.096	17.693	15.590	1.6603E-05	1.7520E-05	0.692
57	317	309.7	557.5	0.044	0.038	17.715	15.610	6.8304E-06	6.9961E-06	1.243
58	318	309.3	556.7	0.014	0.013	17.725	15.618	2.1688E-06	2.2884E-06	2.761
59	319	308.8	555.8	0.010	0.009	17.735	15.627	1.5221E-06	1.6059E-06	5.862
60	320	308.5	555.3	-0.012	-0.010	17.741	15.632	-1.7780E-06	-1.8759E-06	-3.630
61	505	322.4	580.3	1.769	1.559	17.448	15.374	2.7396E-04	2.8933E-04	0.016
62	507	321.0	577.8	2.344	2.066	17.477	15.399	3.6233E-04	3.8262E-04	0.066
63	508	318.9	574.1	2.933	2.585	17.521	15.438	4.5217E-04	4.7742E-04	0.102
64	509	316.4	569.5	3.333	2.674	17.574	15.489	4.6396E-04	4.9190E-04	0.054
65	510	317.9	572.1	2.993	2.637	17.543	15.458	4.6064E-04	4.8633E-04	0.070
66	511	317.8	572.0	2.950	2.599	17.545	15.460	4.5409E-04	4.7937E-04	0.083
67	512	316.7	570.1	2.682	2.363	17.567	15.479	4.1220E-04	4.3515E-04	0.213
68	513	315.5	567.9	2.255	1.987	17.593	15.502	3.4604E-04	3.6527E-04	0.313
69	514	313.5	564.4	1.302	1.147	17.635	15.539	1.9925E-04	2.1029E-04	0.401
70	515	311.8	561.2	0.672	0.593	17.672	15.572	1.0271E-04	1.0839E-04	0.438
71	601	312.3	562.2	0.000	0.000	17.661	15.561	0.0000E-39	0.0000E-39	-19.650
72	602	310.6	559.2	0.000	0.000	17.696	15.593	0.0000E-39	0.0000E-39	-38.297
73	603	309.2	556.5	-0.000	-0.000	17.727	15.620	-0.0000E-39	-0.0000E-39	6.468
74	604	307.7	553.8	-0.000	-0.000	17.759	15.648	-0.0000E-39	-0.0000E-39	0.974
75	605	306.2	551.1	-0.000	-0.000	17.791	15.676	-0.0000E-39	-0.0000E-39	-0.058

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3215E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

Run 77

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.346	16.056	15.786
PT2/PT1	5.373E-02	5.278E-02	5.189E-02
TEMP(DEG R)	2089.4	2156.4	2236.4
TT2/TT1	1.0170	1.0496	1.0886

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 78 FRAME 26 TC 52 CONSTANT SET 561

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	C 0 8 1	5.10	C.5187E C6	75.98	1983.39	1.CCCC

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.980	1982.731	C.083	C.128	674.271	-0.280	17.6011
0.070	75.980	1983.124	C.083	C.131	673.295	-0.280	17.6C92
0.140	75.798	1983.390	0.083	C.201	674.271	-0.293	17.6092
0.210	75.798	1983.517	C.C81	C.545	681.079	-C.280	17.6092
0.280	75.980	1984.305	C.171	1.274	840.14C	-0.280	17.6C52
0.350	75.980	1982.860	C.655	2.019	1297.127	-0.28C	17.5648
0.420	75.798	1982.993	1.654	2.683	1586.029	-0.280	17.6092
0.490	75.798	1983.259	2.644	3.367	1714.809	-0.293	17.6092
0.560	75.980	1983.650	3.173	3.817	1814.986	-0.293	17.6132
0.630	75.980	1983.783	3.573	3.981	1878.488	-0.280	17.6132
0.700	75.980	1983.253	3.850	3.873	1929.259	-0.293	32.2808
0.770	75.798	1982.995	4.075	3.592	1947.816	-C.280	34.915E
0.840	75.798	1983.517	4.115	3.406	1962.355	-0.319	34.9238
0.910	75.980	1983.386	4.099	3.358	1973.536	-0.293	34.9279
0.980	75.798	1983.912	4.073	3.406	1985.397	-0.293	34.9319
1.050	75.980	1983.384	4.049	3.47C	1995.239	-0.293	34.9158
1.120	75.798	1982.861	4.049	3.517	2011.596	-0.28C	34.9279
1.190	75.615	1983.388	4.062	3.553	2014.861	-0.306	34.9279
1.260	75.798	1983.386	4.065	3.572	2031.153	-0.306	34.9319
1.330	75.980	1983.912	4.075	3.578	2034.405	-C.306	34.9319
1.400	75.798	1983.255	4.065	3.581	2040.902	-0.293	34.9198
1.470	75.798	1982.861	4.068	3.597	2050.631	-0.293	34.9238
1.540	75.798	1983.255	4.075	3.628	2059.047	-0.306	34.9279
1.610	75.798	1983.386	4.075	3.653	2062.574	-0.306	34.9279
1.680	75.798	1983.517	4.068	3.673	2051.279	-0.293	34.9319
1.750	75.980	1983.253	4.049	3.664	2053.222	-0.293	34.9198
1.820	75.980	1982.857	4.046	3.664	2066.803	-0.306	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	R/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7016E 06	5.1868E 05	0.305	5.17	1101.9	0.11621E 07	0.3048	1.CCC	RUN NO. 78
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.1868E 05	5.1868E 05	1.CCC	75.98	1983.4	499.75	1.0000	1.CCO	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.CCO)	H/HS(0.9C8)	H/HS(0.874)	CHAN	T/C	HW/HT	C/QS	H/HS(1.000)	H/HS(C.908)	H/HS(C.874)
1	16	0.272	0.0554	C.C554	C.0634	C.0670	39	214	0.293	0.0000	0.0000	C.CCCC	C.CCCO
2	17	0.272	C.0577	C.C577	C.C661	0.0698	40	215	0.271	-0.0012	-0.0012	-0.0013	-0.0014
3	18	0.273	0.0606	0.0606	G.0694	G.0733	41	216	0.269	-C.CCCO	-0.CCCO	-0.CCCO	-0.CCCO
4	19	0.273	C.0626	0.0626	G.0717	0.0757	42	217	0.269	-0.0000	-C.CCCO	-0.CCCO	-C.CCCO
5	20	0.273	G.0664	0.0664	G.076C	0.0803	43	218	0.269	-0.0000	-0.0000	-0.0000	-C.CCCO
6	21	0.273	C.0706	C.0706	C.C808	0.0854	44	219	0.269	-0.0000	-0.0000	-0.0000	-0.CCCO
7	22	0.274	C.0729	0.0729	C.0835	C.0882	45	220	0.269	C.CCC3	C.CCC3	0.CCC3	0.CCC3
8	23	0.274	C.0741	0.0741	0.0848	0.0896	46	306	0.293	-0.0000	-0.0000	-C.CCCO	-C.CCCO
9	24	0.274	0.0782	C.0782	0.0895	C.0946	47	307	0.274	C.C595	0.C595	0.0682	0.C720
10	25	0.274	C.0821	0.0821	G.0940	G.0993	48	308	0.273	0.0531	0.0531	C.C6C7	C.C642
11	41	0.270	0.0121	0.C121	0.0138	0.0146	49	309	0.273	0.0437	0.0437	C.0500	C.C528
12	42	0.271	0.0198	C.0198	C.C227	0.0240	50	310	0.272	0.C390	0.C390	0.0447	C.0472
13	43	0.272	0.0163	C.0163	C.0187	C.0197	51	311	0.000	*******	*******	*******	*******
14	44	0.272	C.0188	0.0188	C.0216	G.0228	52	312	0.271	0.0189	0.0189	0.0216	C.C228
15	45	0.272	C.0189	C.0189	G.0217	0.0229	53	313	C.270	0.0102	0.0102	0.0116	C.C123
16	46	0.272	0.0187	C.C187	C.0214	G.C226	54	314	0.270	C.CC23	0.CC23	0.0026	0.0028
17	47	0.273	0.0206	C.0206	0.0236	C.0249	55	315	0.270	C.CCCO	0.CCCO	0.CCCO	0.CCCO
18	48	0.272	C.0196	0.0196	C.0224	0.0237	56	316	0.270	0.0005	0.0005	C.CC06	C.CC06
19	49	0.273	0.0236	0.C236	C.0270	0.0285	57	317	0.269	-0.CCC2	-0.CCC2	-C.CC03	-C.CC03
20	50	0.272	0.025C	C.0250	C.0286	0.0302	58	318	0.269	-C.CCC1	-0.CCC1	-0.CCC1	-0.CCC1
21	103	0.277	C.0781	0.0781	G.0895	C.C946	59	319	0.269	-C.CCCO	-C.CCCO	-0.CCCO	-0.CCCO
22	105	0.278	0.0766	0.0766	C.0878	0.0928	60	320	C.269	-0.0003	-C.CCC3	-C.CCC3	-C.CC04
23	107	0.277	C.0791	C.C791	C.C9C6	0.0958	61	406	0.274	0.06CC	0.0600	G.C687	C.C726
24	108	0.276	0.0769	C.0769	C.0881	0.C931	62	407	0.273	0.0608	0.0608	0.0696	C.0735
25	110	0.275	G.0617	0.0617	C.C707	0.0747	63	408	0.273	G.0547	0.0547	0.C626	0.0661
26	111	0.275	G.C516	C.0516	G.C591	0.0624	64	409	0.272	0.0475	0.0475	0.0544	C.0575
27	112	0.274	0.0343	G.0343	C.C393	0.0415	65	410	0.272	0.0387	0.0387	0.0442	0.0467
28	113	0.274	C.0197	G.C197	C.C226	0.0239	66	411	0.272	0.0333	0.0333	0.0382	0.0403
29	114	0.273	C.0093	0.0093	C.0061	C.CC64	67	412	0.271	0.0199	0.C199	0.C227	0.C240
30	115	0.272	C.CC11	0.CC11	C.0013	G.C014	68	413	0.271	0.0118	0.C118	0.0135	C.C142
31	203	0.275	G.0709	C.C709	C.C812	0.0858	69	414	0.270	0.CC25	0.0025	C.CC28	C.0030
32	205	0.273	0.0736	C.0736	C.0843	C.C891	70	415	0.270	-0.CCC2	-0.CCC2	-0.CCC2	-C.CCC2
33	207	0.275	C.0756	0.0756	0.0866	C.C915	71	601	0.270	0.0000	C.CCCO	0.CCCO	0.CCCC
34	208	0.275	C.0664	0.0664	G.0760	G.C8C3	72	602	0.270	-0.0000	-0.CCCO	-C.CCCO	-C.CCCO
35	210	0.274	C.0471	C.0471	C.0539	0.C570	73	603	0.269	0.0000	0.CCCO	0.CCCO	C.CCCO
36	211	0.273	G.0390	C.0390	C.0446	C.0472	74	604	0.269	0.CCCO	0.CCCC	0.CCCC	0.CCCC
37	212	0.273	0.0262	0.0262	C.C300	C.0317	75	605	0.268	0.0000	C.CCCO	0.CCCC	0.CCCC
38	213	0.293	-C.CCC1	-0.CCC1	-C.CCC1	-0.CCC1							

309

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	RHL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	PRT/HT	TEST NO. 182
5.10	1.70178E 06	5.18698E 05	0.305	9.17	1101.9	0.11021E 07	0.3048	1.000	RUN NO. 78
MACH	RE/FT	RHL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	PRT/HT	
5.10	5.18698E 05	5.18698E 05	1.000	79.58	1983.4	474.75	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(C.968)	ST(C.874)	TIME(SEC)
1	16	314.5	566.C	0.483	0.408	8.354	7.361	2.9221E-C4	3.0871E-C4	C.100
2	17	314.9	566.9	0.482	0.425	8.349	7.357	3.0452E-C4	3.2173E-C4	C.123
3	18	315.7	568.3	C.505	C.445	8.341	7.35C	3.1552E-C4	3.3759E-C4	C.142
4	19	316.C	568.8	0.522	0.460	6.338	7.347	3.3C13E-04	3.4881E-04	C.158
5	20	316.2	569.1	0.554	0.488	8.336	7.345	3.5027E-C4	3.7C09E-C4	0.182
6	21	316.4	569.5	0.588	0.518	8.334	7.343	3.7217E-C4	3.9324E-C4	0.197
7	22	316.7	57C.0	C.607	C.535	8.331	7.341	3.844CE-C4	4.C617E-04	C.207
8	23	316.7	570.1	0.617	0.544	8.331	7.340	3.9C63E-04	4.1275E-C4	C.212
9	24	317.1	570.P	0.651	0.574	8.327	7.337	4.1234E-C4	4.357CE-C4	C.217
10	25	316.5	569.7	0.684	C.603	8.333	7.342	4.3290E-C4	4.5741E-C4	C.225
11	41	312.8	563.1	0.101	C.089	8.372	7.377	6.3742E-C5	6.7332E-05	C.592
12	42	313.3	563.9	0.166	0.146	8.367	7.372	1.0450E-04	1.1039E-04	C.446
13	43	314.4	566.C	0.136	0.12C	8.355	7.362	8.6064E-C5	9.0923E-C5	C.445
14	44	315.0	567.C	C.157	C.139	8.349	7.356	9.9297E-C5	1.0491E-C4	C.449
15	45	314.9	566.7	0.158	C.139	8.350	7.358	9.9623E-05	1.0557E-04	C.468
16	46	315.C	566.9	0.156	0.138	8.349	7.357	9.8580E-05	1.0415E-C4	C.522
17	47	315.3	567.6	0.172	0.151	8.345	7.353	1.0854E-C4	1.1468E-C4	C.463
18	48	315.3	567.5	C.164	C.144	8.346	7.354	1.0336E-C4	1.092CE-C4	0.5C0
19	49	315.8	568.5	0.197	C.173	8.340	7.349	1.2428E-04	1.3131E-04	C.453
20	50	315.1	567.3	0.209	0.184	8.347	7.355	1.3175E-04	1.3919E-04	C.400
21	103	320.4	576.7	0.647	0.571	8.292	7.306	4.1159E-C4	4.3544E-C4	C.219
22	105	321.3	578.4	0.634	0.559	8.282	7.298	4.0417E-C4	4.2721E-C4	0.213
23	107	320.8	577.5	0.655	0.578	8.287	7.302	4.1731E-04	4.4108E-04	C.228
24	108	319.9	575.8	0.638	0.562	8.297	7.311	4.0564E-04	4.2872E-C4	C.121
25	110	318.8	573.8	0.513	0.452	8.309	7.321	3.2563E-04	3.4413E-C4	C.05C
26	111	318.3	573.0	0.429	0.378	8.314	7.326	2.72C7E-04	2.8752E-C4	0.155
27	112	317.3	571.2	0.285	C.251	8.324	7.335	1.8C85E-04	1.9110E-04	C.428
28	113	316.6	569.8	0.164	C.145	8.332	7.342	1.0402E-04	1.0991E-04	C.608
29	114	319.4	567.8	0.044	0.039	8.344	7.352	2.7887E-C5	2.9464E-C5	0.866
30	115	314.3	565.8	C.009	0.008	8.356	7.363	5.5825E-06	6.3202E-06	0.469
31	203	318.1	572.5	C.590	C.520	8.316	7.328	3.7405E-04	3.9528E-04	C.193
32	205	318.7	573.6	0.612	C.539	8.310	7.322	3.8846E-04	4.1053E-04	C.214
33	207	318.4	573.C	0.628	0.554	8.313	7.325	3.9866E-C4	4.2125E-C4	0.193
34	208	317.8	572.0	C.552	C.486	8.319	7.331	3.5CC4E-04	3.699CE-C4	0.121
35	210	316.8	570.3	0.392	C.346	8.330	7.339	2.4829E-04	2.6236E-04	C.C35
36	211	316.4	569.6	C.325	0.286	8.333	7.343	2.0557E-04	2.1721E-04	C.15C
37	212	315.7	568.2	0.219	0.193	8.341	7.350	1.3834E-C4	1.4616E-C4	0.385
38	213	338.7	609.7	-0.001	-C.CC1	8.099	7.137	-4.1437E-C7	-4.3861E-07	1.404
39	214	338.7	609.7	0.000	C.CCC	8.099	7.136	7.1792E-16	7.5992E-16	*******
40	215	313.5	564.2	-0.010	-0.009	8.365	7.371	-6.1269E-06	-6.4723E-C6	1.568
41	216	311.5	560.7	-0.000	-0.CCC	8.386	7.389	-1.9985E-C7	-2.1105E-C7	-26.038
42	217	311.4	560.6	-C.000	-C.CCC	8.386	7.389	-3.4853E-12	-3.6812E-12	*******
43	218	311.1	560.0	-C.000	-C.CCC	8.390	7.393	-1.5112E-12	-1.5961E-12	*******
44	219	311.C	559.8	-0.000	-0.CCC	8.391	7.393	-2.0075E-07	-2.1202E-07	-12.988
45	220	311.0	559.7	0.CC2	0.CC2	8.391	7.394	1.5C71E-C6	1.5918E-C6	3.372
46	306	338.7	609.7	-C.CCC	-C.CCC	8.099	7.136	-4.0343E-14	-4.2756E-14	*******
47	307	316.8	570.2	C.496	0.437	8.330	7.340	3.1407E-04	3.3186E-C4	C.135
48	308	316.1	569.1	0.442	0.39C	8.337	7.346	2.7981E-04	2.9564E-C4	-C.CC6
49	309	315.6	568.1	C.364	C.321	8.343	7.351	2.3028E-C4	2.433CE-C4	-C.CB6
50	310	315.3	567.5	C.326	C.287	8.346	7.354	2.0582E-04	2.1745E-C4	-0.C15
51	311	C.C	0.C	********	********	**********	**********	5.C193E 02	5.2146E 02	C.CC0
52	312	313.5	564.3	0.156	0.139	8.365	7.370	9.9564E-C5	1.0518E-C4	C.515
53	313	312.5	562.4	0.C85	0.075	8.376	7.380	5.353CE-C5	5.6543E-C5	0.694
54	314	312.9	563.2	0.C19	0.017	8.371	7.376	1.2151E-C5	1.2835E-C5	0.54C
55	315	312.4	562.3	C.000	C.CC0	8.376	7.380	1.4469E-07	1.5812E-07	7.121
56	316	311.9	561.4	0.C04	0.C04	8.381	7.385	2.8143E-06	2.9726E-C6	1.668
57	317	311.5	560.6	-C.CC2	-0.C02	8.386	7.389	-1.3C6CE-C6	-1.3794E-C6	0.321
58	318	311.3	560.3	-C.CC1	-C.C01	8.388	7.391	-4.5157E-C7	-4.7655E-C7	-1.548
59	319	311.1	559.9	-0.000	-C.CC0	8.390	7.393	-1.51C1E-C7	-1.5949E-07	-8.461
60	320	311.0	559.8	-0.002	-0.C02	8.390	7.393	-1.5578E-C6	-1.6453E-C6	C.300
61	4C6	316.7	57C.1	0.3CC	C.44C	8.331	7.341	3.1650E-C4	3.3442E-C4	0.102
62	407	316.3	569.4	C.5C7	C.446	8.335	7.344	3.2C59E-04	3.3873E-C4	0.089
63	408	315.5	568.C	C.456	C.402	8.343	7.351	2.8830E-04	3.C460E-04	-C.025
64	409	314.6	566.3	0.397	0.35C	8.353	7.360	2.5C62E-C4	2.6478E-C4	-0.099
65	410	314.8	566.2	C.323	C.285	8.353	7.36C	2.0384E-04	2.1535E-C4	-0.044
66	411	314.4	565.9	C.277	C.246	8.355	7.362	1.7585E-C4	1.8578E-C4	C.1C5
67	412	313.9	565.1	C.166	C.146	8.360	7.366	1.0473E-04	1.1064E-C4	C.413
68	413	313.6	564.5	0.094	0.087	8.363	7.369	6.2146E-C5	6.565CE-C5	C.662
69	414	312.9	563.2	C.C21	C.C19	8.371	7.376	1.3647E-C5	1.3782E-C5	C.529
70	415	312.2	561.9	-C.C02	-C.C01	8.379	7.383	-9.6483E-C7	-1.C5C8E-06	C.452
71	601	312.9	563.3	C.CCC	C.CCC	8.376	7.381	C.CCCCE-39	C.CCCCE-39	-2.611
72	602	312.0	561.6	-0.CCC	-C.CCC	8.385	7.389	-C.CCCCE-39	-C.CCCCE-39	22.929
73	603	311.9	561.7	C.CCC	C.CCC	8.385	7.389	C.CCCCE-39	C.CCCCE-39	1.31C
74	604	311.1	559.9	C.CCC	C.CCC	8.390	7.393	C.CCCCE-39	C.CCCCE-39	2.434
75	605	310.4	558.7	C.CCC	C.CCC	8.397	7.399	C.CCCCE-39	C.CCCCE-39	1.843

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3647E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.756	4.046	3.664
PT2/PT1	4.944E-02	5.325E-02	4.823E-02
TEMPERATURE (R)	1938.5	2066.8	2118.2
TT2/TT1	0.9314	1.0421	1.0680

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 79 FRAME 26 TO 52 CONSTANT SET 571

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.9704E 06	150.38	2050.71	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN PDS
0.000	150.195	2050.053	0.147	0.199	712.694	-0.274	17.5747
0.070	150.195	2050.186	0.147	0.215	713.640	-0.287	17.6059
0.140	150.195	2050.053	0.147	0.324	715.530	-0.300	17.6150
0.210	150.195	2050.833	0.157	0.977	728.686	-0.287	17.5868
0.280	150.377	2050.443	0.274	2.420	907.267	-0.274	17.5666
0.350	150.377	2049.797	1.229	3.905	1445.989	-0.274	17.5665
0.420	150.377	2049.928	3.389	5.409	1742.437	-0.300	17.6029
0.490	150.195	2050.187	5.355	6.905	1861.003	-0.313	17.6110
0.560	150.377	2050.577	6.505	7.814	1975.536	-0.300	17.6110
0.630	150.377	2050.574	7.365	8.061	2034.405	-0.287	17.6110
0.700	150.377	2049.926	7.947	7.850	2066.803	-0.300	21.7070
0.770	150.377	2049.666	8.203	7.466	2092.568	-0.287	34.8507
0.840	150.377	2049.669	8.211	7.227	2098.989	-0.326	34.9274
0.910	150.377	2050.709	8.156	7.202	2107.323	-0.313	34.9274
0.980	150.377	2050.702	8.087	7.286	2105.401	-0.287	34.9274
1.050	150.560	2049.277	8.045	7.394	2116.922	-0.287	34.9233
1.120	150.377	2049.538	8.039	7.480	2118.201	-0.300	34.9314
1.190	150.377	2049.665	8.050	7.561	2137.340	-0.313	34.9314
1.260	150.377	2050.445	8.053	7.614	2141.795	-0.313	34.9314
1.330	150.377	2050.445	8.053	7.658	2137.340	-0.300	34.9274
1.400	150.377	2049.270	8.053	7.689	2143.368	-0.300	34.9233
1.470	150.195	2048.757	8.068	7.722	2150.060	-0.287	34.9274
1.540	150.377	2050.184	8.074	7.744	2151.965	-0.313	34.9314
1.610	150.377	2050.443	8.068	7.772	2153.870	-0.313	34.9314
1.680	150.195	2050.573	8.066	7.803	2161.482	-0.300	34.9314
1.750	150.377	2049.272	8.061	7.814	2162.749	-0.300	34.9233
1.820	150.377	2049.273	8.066	7.814	2162.749	-0.300	34.9274

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	3.1836E 06	9.7035E 05	0.305	10.23	1139.3	0.12055E 07	0.3048	1.000	RUN NO.	79
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	9.7035E 05	9.7035E 05	1.000	150.38	2050.7	518.37	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.264	0.0479	0.0479	0.0548	0.0578	39	214	0.262	0.0000	0.0000	0.0000	0.0000
2	17	0.265	0.0510	0.0510	0.0583	0.0616	40	215	0.262	-0.0114	-0.0114	-0.0130	-0.0136
3	18	0.266	0.0540	0.0540	0.0617	0.0652	41	216	0.260	-0.0012	-0.0012	-0.0013	-0.0014
4	19	0.266	0.0563	0.0563	0.0644	0.0680	42	217	0.260	-0.0004	-0.0004	-0.0005	-0.0005
5	20	0.266	0.0588	0.0588	0.0673	0.0710	43	218	0.259	-0.0002	-0.0002	-0.0003	-0.0003
6	21	0.267	0.0621	0.0621	0.0710	0.0750	44	219	0.259	-0.0004	-0.0004	-0.0005	-0.0005
7	22	0.267	0.0634	0.0634	0.0725	0.0765	45	220	0.259	-0.0005	-0.0005	-0.0006	-0.0006
8	23	0.267	0.0655	0.0655	0.0749	0.0791	46	306	0.282	0.0001	0.0001	0.0001	0.0001
9	24	0.268	0.0708	0.0708	0.0810	0.0855	47	307	0.267	0.0555	0.0555	0.0635	0.0671
10	25	0.267	0.0733	0.0733	0.0838	0.0885	48	308	0.266	0.0520	0.0520	0.0595	0.0628
11	41	0.262	0.0104	0.0104	0.0118	0.0125	49	309	0.266	0.0441	0.0441	0.0504	0.0532
12	42	0.262	0.0145	0.0145	0.0165	0.0174	50	310	0.265	0.0389	0.0389	0.0445	0.0469
13	43	0.264	0.0134	0.0134	0.0153	0.0162	51	311	0.282	-0.0000	-0.0000	-0.0000	-0.0000
14	44	0.265	0.0166	0.0166	0.0189	0.0200	52	312	0.263	0.0185	0.0185	0.0211	0.0223
15	45	0.265	0.0156	0.0156	0.0179	0.0189	53	313	0.262	0.0098	0.0098	0.0112	0.0118
16	46	0.265	0.0153	0.0153	0.0175	0.0185	54	314	0.262	0.0025	0.0025	0.0028	0.0030
17	47	0.265	0.0171	0.0171	0.0195	0.0206	55	315	0.261	0.0001	0.0001	0.0002	0.0002
18	48	0.265	0.0200	0.0200	0.0229	0.0242	56	316	0.261	-0.0001	-0.0001	-0.0001	-0.0001
19	49	0.266	0.0285	0.0285	0.0326	0.0345	57	317	0.260	-0.0004	-0.0004	-0.0005	-0.0005
20	50	0.265	0.0214	0.0214	0.0244	0.0258	58	318	0.260	0.0000	0.0000	0.0000	0.0000
21	103	0.271	0.0731	0.0731	0.0837	0.0884	59	319	0.259	0.0001	0.0001	0.0001	0.0001
22	105	0.272	0.0709	0.0709	0.0812	0.0858	60	320	0.259	0.0006	0.0006	0.0007	0.0007
23	107	0.272	0.0733	0.0733	0.0839	0.0886	61	506	0.266	0.0535	0.0535	0.0612	0.0646
24	108	0.271	0.0729	0.0729	0.0834	0.0881	62	507	0.266	0.0532	0.0532	0.0608	0.0642
25	110	0.269	0.0614	0.0614	0.0702	0.0742	63	508	0.265	0.0480	0.0480	0.0549	0.0579
26	111	0.269	0.0528	0.0528	0.0604	0.0637	64	509	0.263	0.0376	0.0376	0.0430	0.0454
27	112	0.267	0.0380	0.0380	0.0434	0.0459	65	510	0.264	0.0315	0.0315	0.0360	0.0380
28	113	0.266	0.0234	0.0234	0.0268	0.0283	66	511	0.264	0.0296	0.0296	0.0338	0.0357
29	114	0.265	0.0068	0.0068	0.0078	0.0082	67	512	0.263	0.0207	0.0207	0.0237	0.0250
30	115	0.263	0.0018	0.0018	0.0020	0.0021	68	513	0.263	0.0129	0.0129	0.0147	0.0155
31	203	0.268	0.0650	0.0650	0.0744	0.0785	69	514	0.262	0.0033	0.0033	0.0038	0.0040
32	205	0.269	0.0685	0.0685	0.0783	0.0827	70	515	0.261	0.0008	0.0008	0.0009	0.0009
33	207	0.269	0.0762	0.0762	0.0872	0.0921	71	601	0.261	-0.0000	-0.0000	-0.0000	-0.0000
34	208	0.268	0.0658	0.0658	0.0752	0.0794	72	602	0.261	-0.0000	-0.0000	-0.0000	-0.0000
35	210	0.267	0.0457	0.0457	0.0523	0.0552	73	603	0.260	0.0000	0.0000	0.0000	0.0000
36	211	0.266	0.0377	0.0377	0.0431	0.0455	74	604	0.259	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.265	0.0255	0.0255	0.0292	0.0308	75	605	0.259	0.0000	0.0000	0.0000	0.0000
38	213	0.282	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PI(ATM)	TI(DEG K)	HT(JOULE/KG)	RSE(METER)	RAW/HT	TEST NO. 304
5.10	3.1836E 06	9.7035E 05	0.305	10.23	1139.3	9.1205BE 07	0.3048	1.000	RUN NO. 73
MACH	RE/FT	REL	LENGTH(FT)	PI(PSI)	TT(DEG R)	HT(BTU/LBM)	RSE(FT)	RAW/HT	
5.10	9.7035E 05	9.7035E 05	1.000	150.38	2050.7	518.37	1.0000	1.000	

CH/4	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	316.8	570.2	0.590	0.520	12.317	10.851	1.8378E-04	1.7402E-04	-0.027
2	17	317.8	572.0	0.626	0.553	12.302	10.840	1.9568E-04	2.0660E-04	0.036
3	18	319.3	574.7	0.663	0.584	12.280	10.820	2.0721E-04	2.1880E-04	0.062
4	19	319.8	575.6	0.691	0.609	12.273	10.814	2.1608E-04	2.2817E-04	0.099
5	20	319.9	575.7	0.722	0.636	12.271	10.813	2.2567E-04	2.3830E-04	0.117
6	21	320.2	576.3	0.762	0.671	12.266	10.809	2.3824E-04	2.5158E-04	0.130
7	22	320.6	577.1	0.777	0.685	12.260	10.803	2.4316E-04	2.5678E-04	0.134
8	23	320.5	577.0	0.803	0.708	12.261	10.804	2.5128E-04	2.6535E-04	0.149
9	24	321.1	578.0	0.867	0.764	12.253	10.796	2.7162E-04	2.8684E-04	0.173
10	25	320.0	576.0	0.899	0.792	12.270	10.811	2.8124E-04	2.9698E-04	0.162
11	41	313.9	565.1	0.128	0.113	12.359	10.893	3.9778E-05	4.1986E-05	0.529
12	42	314.9	566.8	0.179	0.157	12.346	10.878	5.5478E-05	5.8562E-05	0.353
13	43	317.2	571.0	0.165	0.146	12.311	10.848	5.1466E-05	5.4336E-05	0.224
14	44	318.0	572.5	0.204	0.180	12.298	10.835	6.3565E-05	6.7113E-05	0.218
15	45	317.7	571.9	0.192	0.170	12.303	10.841	5.9979E-05	6.3326E-05	0.295
16	46	317.8	572.0	0.189	0.166	12.302	10.840	5.8828E-05	6.2111E-05	0.303
17	47	318.4	573.1	0.210	0.185	12.293	10.832	6.5605E-05	6.9269E-05	0.248
18	48	318.2	572.8	0.246	0.217	12.295	10.834	7.6765E-05	8.1053E-05	0.245
19	49	318.9	574.1	0.351	0.309	12.285	10.825	1.0950E-04	1.1562E-04	0.197
20	50	317.7	571.9	0.263	0.232	12.303	10.841	8.1918E-05	8.6469E-05	0.251
21	103	325.5	585.9	0.892	0.786	12.188	10.739	2.8078E-04	2.9662E-04	0.203
22	105	327.0	588.6	0.863	0.760	12.165	10.719	2.7223E-04	2.8752E-04	0.193
23	107	326.3	587.4	0.892	0.786	12.176	10.728	2.8125E-04	2.9713E-04	0.211
24	108	324.9	584.8	0.889	0.784	12.196	10.747	2.7990E-04	2.9567E-04	0.082
25	110	323.3	581.9	0.750	0.661	12.221	10.768	2.3554E-04	2.4878E-04	-0.372
26	111	322.5	580.5	0.645	0.569	12.232	10.778	2.0247E-04	2.1385E-04	0.010
27	112	321.0	577.8	0.465	0.410	12.254	10.798	1.4575E-04	1.5393E-04	0.275
28	113	319.8	575.7	0.287	0.253	12.272	10.813	8.9852E-05	9.4881E-05	0.434
29	114	317.9	572.3	0.084	0.074	12.300	10.838	2.6182E-05	2.7643E-05	0.485
30	115	316.3	569.3	0.022	0.019	12.325	10.860	6.7270E-06	7.1016E-06	0.322
31	203	321.9	579.4	0.796	0.701	12.241	10.785	2.4953E-04	2.6353E-04	0.193
32	205	322.9	581.3	0.837	0.738	12.225	10.772	2.6278E-04	2.7755E-04	0.179
33	207	322.5	580.5	0.932	0.821	12.232	10.778	2.9244E-04	3.0887E-04	0.153
34	208	321.7	579.0	0.805	0.709	12.245	10.789	2.5234E-04	2.6650E-04	0.084
35	210	320.2	576.4	0.561	0.494	12.266	10.808	1.7537E-04	1.8519E-04	0.003
36	211	319.6	575.3	0.463	0.408	12.275	10.816	1.4461E-04	1.5270E-04	0.086
37	212	318.5	573.2	0.314	0.277	12.292	10.831	9.8011E-05	1.0349E-04	0.285
38	213	388.7	609.7	-0.000	-0.000	11.992	10.565	-1.0962E-13	-1.1592E-13	*******
39	214	388.7	609.7	0.000	0.000	11.992	10.565	4.0654E-16	4.2989E-16	*******
40	215	315.0	567.0	-0.141	-0.124	12.343	10.876	-4.3779E-05	-4.6213E-05	1.223
41	216	312.2	561.9	-0.014	-0.013	12.386	10.914	-4.4811E-06	-4.7293E-06	-0.516
42	217	311.9	561.5	-0.005	-0.005	12.389	10.915	-1.5915E-06	-1.6796E-06	-1.594
43	218	311.3	560.4	-0.003	-0.003	12.398	10.924	-9.1436E-07	-9.6494E-07	-1.959
44	219	311.2	560.2	-0.005	-0.005	12.400	10.926	-1.6307E-06	-1.7209E-06	-1.124
45	220	311.0	559.8	-0.007	-0.006	12.403	10.929	-2.0263E-06	-2.1383E-06	-0.222
46	306	338.7	609.7	0.001	0.001	11.991	10.565	2.4500E-07	2.5908E-07	1.154
47	307	320.7	577.3	0.681	0.600	12.259	10.802	2.1314E-04	2.2508E-04	0.103
48	308	319.7	575.4	0.638	0.563	12.274	10.815	1.9955E-04	2.1072E-04	-0.033
49	309	318.8	573.8	0.542	0.477	12.288	10.827	1.6913E-04	1.7858E-04	-0.342
50	310	318.1	572.6	0.478	0.421	12.297	10.835	1.4918E-04	1.5751E-04	-0.347
51	311	338.7	609.7	-0.000	-0.000	11.992	10.565	-5.0865E-08	-5.3788E-08	1.347
52	312	315.1	567.2	0.228	0.201	12.342	10.875	7.0985E-05	7.4932E-05	0.453
53	313	314.3	565.7	0.121	0.107	12.355	10.886	3.7651E-05	3.9743E-05	0.556
54	314	314.4	565.9	0.031	0.027	12.353	10.884	9.5138E-06	1.0042E-05	1.013
55	315	313.6	564.5	0.002	0.001	12.365	10.895	5.1496E-07	5.4356E-07	8.338
56	316	312.7	562.9	-0.001	-0.001	12.378	10.906	-3.2156E-07	-3.3932E-07	-13.145
57	317	311.9	561.5	-0.005	-0.005	12.389	10.916	-1.6065E-06	-1.6954E-06	-0.776
58	318	311.7	561.0	0.000	0.000	12.393	10.920	7.4220E-08	7.8328E-08	44.099
59	319	311.4	560.5	0.001	0.001	12.397	10.924	4.4451E-07	4.6911E-07	13.860
60	320	311.2	560.1	0.007	0.006	12.400	10.926	2.1998E-06	2.3215E-06	4.358
61	506	319.7	575.4	0.657	0.579	12.274	10.815	2.0532E-04	2.1680E-04	0.368
62	507	319.0	574.2	0.653	0.576	12.284	10.824	2.0398E-04	2.1538E-04	0.362
63	508	317.7	571.9	0.591	0.520	12.303	10.841	1.8414E-04	1.9441E-04	-0.010
64	509	316.0	568.8	0.464	0.409	12.328	10.863	1.4430E-04	1.5233E-04	-0.193
65	510	316.4	569.6	0.388	0.342	12.322	10.858	1.2075E-04	1.2748E-04	-0.176
66	511	316.4	569.5	0.364	0.321	12.323	10.858	1.1337E-04	1.1968E-04	-0.105
67	512	315.9	568.7	0.256	0.225	12.330	10.864	7.9482E-05	8.3907E-05	0.181
68	513	315.3	567.6	0.159	0.140	12.338	10.872	4.9390E-05	5.2144E-05	0.413
69	514	314.2	565.6	0.041	0.036	12.355	10.887	1.2677E-05	1.3381E-05	0.843
70	515	313.1	563.6	0.009	0.008	12.372	10.902	2.9151E-06	3.0778E-06	2.111
71	601	313.5	564.2	-0.000	-0.000	12.367	10.897	-0.0000E-39	-0.0000E-39	17.575
72	602	312.7	562.9	-0.000	-0.000	12.377	10.906	-0.0000E-39	-0.0000E-39	2.477
73	603	311.8	561.2	0.000	0.000	12.392	10.919	0.0000E-39	0.0000E-39	30.235
74	604	311.0	559.8	-0.000	-0.000	12.403	10.929	-0.0000E-39	-0.0000E-39	-4.239
75	605	310.0	558.1	0.000	0.000	12.417	10.941	0.0000E-39	0.0000E-39	5.736

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6341E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	8.008	8.066	7.814
PT2/PT1	5.325E-02	5.364E-02	5.196E-02
TEMP(DEG R)	2099.0	2162.7	2232.0
TT2/TT1	1.0235	1.0546	1.0884

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 80 FRAME 26 TO 52 CONSTANT SET 571

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.9515E 06	150.01	2071.65	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IR POS
0.000	150.195	2070.874	0.172	0.244	714.586	-0.293	17.6011
0.070	150.012	2071.004	0.167	0.264	714.586	-0.280	17.6092
0.140	150.012	2071.000	0.167	0.467	715.530	-0.306	17.6132
0.210	150.195	2071.779	0.175	1.306	742.639	-0.306	17.6052
0.280	149.829	2071.388	0.405	2.905	1039.075	-0.293	17.6011
0.350	150.195	2070.482	1.664	4.289	1554.131	-0.293	17.6011
0.420	150.012	2070.745	3.912	5.829	1806.141	-0.293	17.6092
0.490	150.012	2071.393	5.647	7.219	1909.273	-0.293	17.6092
0.560	150.012	2071.652	6.673	7.969	2011.596	-0.306	17.6092
0.630	150.012	2071.778	7.483	8.125	2066.603	-0.306	17.6092
0.700	150.195	2070.871	8.001	7.830	2089.998	-0.319	33.0031
0.770	150.012	2070.873	8.197	7.410	2097.705	-0.293	34.8835
0.840	150.012	2070.873	8.186	7.185	2108.604	-0.319	34.8230
0.910	150.012	2071.649	8.128	7.171	2115.004	-0.306	34.9279
0.980	150.195	2071.257	8.075	7.297	2132.881	-0.306	34.9238
1.050	150.195	2070.744	8.054	7.438	2136.703	-0.293	34.9198
1.120	150.012	2070.999	8.062	7.524	2148.154	-0.306	34.9238
1.190	150.012	2071.391	8.081	7.580	2160.848	-0.319	34.9279
1.260	150.012	2071.778	8.081	7.616	2153.235	-0.319	34.9279
1.330	150.012	2071.387	8.081	7.655	2157.677	-0.306	34.9238
1.400	150.195	2071.002	8.078	7.677	2160.848	-0.293	34.9198
1.470	150.195	2070.873	8.067	7.702	2162.749	-0.306	34.9238
1.540	150.195	2071.265	8.065	7.741	2169.082	-0.319	34.9279
1.610	150.195	2071.649	8.070	7.769	2172.246	-0.306	34.9279
1.680	150.195	2071.649	8.073	7.802	2174.776	-0.306	34.9238
1.750	150.195	2070.999	8.073	7.839	2179.200	-0.306	34.9198
1.820	150.012	2070.744	8.075	7.850	2188.037	-0.306	34.9238

NATIONAL AERONALTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1217E 06	9.5149E 05	0.305	10.20	1150.9	0.12190E 07	0.3048	1.000	RUN NO. 80
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5149E 05	9.5149E 05	1.000	150.01	2071.6	524.19	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.262	0.0473	0.0473	0.0540	0.0570	39	214	0.279	0.0000	0.0000	0.0000	0.0000
2	17	0.263	0.0506	0.0506	0.0578	0.0611	40	215	0.261	-0.0014	-0.0014	-0.0016	-0.0017
3	18	0.264	0.0538	0.0538	0.0615	0.0649	41	216	0.258	-0.0018	-0.0018	-0.0021	-0.0022
4	19	0.264	0.0559	0.0559	0.0639	0.0674	42	217	0.258	-0.0009	-0.0009	-0.0010	-0.0011
5	20	0.265	0.0589	0.0589	0.0673	0.0711	43	218	0.258	-0.0007	-0.0007	-0.0007	-0.0008
6	21	0.265	0.0621	0.0621	0.0710	0.0749	44	219	0.258	-0.0006	-0.0006	-0.0007	-0.0007
7	22	0.265	0.0642	0.0642	0.0734	0.0775	45	220	0.257	-0.0006	-0.0006	-0.0007	-0.0007
8	23	0.265	0.0659	0.0659	0.0753	0.0796	46	306	0.279	-0.0000	-0.0000	-0.0000	-0.0000
9	24	0.266	0.0717	0.0717	0.0819	0.0865	47	307	0.265	0.0564	0.0564	0.0645	0.0681
10	25	0.265	0.0745	0.0745	0.0852	0.0899	48	308	0.265	0.0521	0.0521	0.0595	0.0628
11	41	0.260	0.0104	0.0104	0.0119	0.0126	49	309	0.264	0.0436	0.0436	0.0498	0.0526
12	42	0.260	0.0139	0.0139	0.0159	0.0168	50	310	0.263	0.0395	0.0395	0.0451	0.0476
13	43	0.262	0.0131	0.0131	0.0150	0.0158	51	311	0.279	-0.0001	-0.0001	-0.0001	-0.0001
14	44	0.263	0.0160	0.0160	0.0183	0.0193	52	312	0.261	0.0183	0.0183	0.0209	0.0221
15	45	0.263	0.0155	0.0155	0.0177	0.0186	53	313	0.259	0.0095	0.0095	0.0109	0.0115
16	46	0.263	0.0158	0.0158	0.0180	0.0190	54	314	0.260	0.0018	0.0018	0.0021	0.0022
17	47	0.264	0.0166	0.0166	0.0190	0.0201	55	315	0.259	-0.0000	-0.0000	-0.0001	-0.0001
18	48	0.263	0.0170	0.0170	0.0194	0.0205	56	316	0.259	-0.0003	-0.0003	-0.0003	-0.0004
19	49	0.264	0.0242	0.0242	0.0277	0.0292	57	317	0.258	-0.0002	-0.0002	-0.0003	-0.0003
20	50	0.263	0.0195	0.0195	0.0223	0.0235	58	318	0.258	-0.0001	-0.0001	-0.0002	-0.0002
21	103	0.270	0.0705	0.0705	0.0807	0.0852	59	319	0.257	-0.0002	-0.0002	-0.0002	-0.0002
22	105	0.271	0.0703	0.0703	0.0805	0.0850	60	320	0.257	0.0001	0.0001	0.0001	0.0001
23	107	0.271	0.0786	0.0786	0.0900	0.0950	61	506	0.264	0.0511	0.0511	0.0583	0.0616
24	108	0.269	0.0802	0.0802	0.0918	0.0970	62	507	0.264	0.0493	0.0493	0.0564	0.0595
25	110	0.268	0.0665	0.0665	0.0761	0.0803	63	508	0.263	0.0455	0.0455	0.0520	0.0549
26	111	0.267	0.0571	0.0571	0.0653	0.0689	64	509	0.261	0.0376	0.0376	0.0430	0.0453
27	112	0.268	0.0395	0.0395	0.0451	0.0477	65	510	0.262	0.0321	0.0321	0.0367	0.0387
28	113	0.265	0.0240	0.0240	0.0274	0.0289	66	511	0.262	0.0294	0.0294	0.0336	0.0355
29	114	0.263	0.0076	0.0076	0.0087	0.0091	67	512	0.261	0.0210	0.0210	0.0240	0.0253
30	115	0.262	0.0019	0.0019	0.0021	0.0022	68	513	0.261	0.0140	0.0140	0.0159	0.0168
31	203	0.267	0.0699	0.0699	0.0799	0.0844	69	514	0.260	0.0041	0.0041	0.0046	0.0049
32	205	0.268	0.0771	0.0771	0.0882	0.0932	70	515	0.259	0.0011	0.0011	0.0012	0.0013
33	207	0.267	0.0615	0.0615	0.0703	0.0743	71	601	0.259	0.0000	0.0000	0.0000	0.0000
34	208	0.267	0.0533	0.0533	0.0610	0.0644	72	602	0.259	-0.0000	-0.0000	-0.0000	-0.0000
35	210	0.265	0.0408	0.0408	0.0467	0.0493	73	603	0.258	-0.0000	-0.0000	-0.0000	-0.0000
36	211	0.265	0.0350	0.0350	0.0400	0.0423	74	604	0.257	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.264	0.0243	0.0243	0.0278	0.0294	75	605	0.256	0.0000	0.0000	0.0000	0.0000
38	213	0.279	-0.0001	-0.0001	-0.0001	-0.0001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1217E 06	9.5149E 05	0.305	10.20	1150.9	0.12190E 07	0.3048	1.000	RUN NO. 80
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5149E 05	9.5149E 05	1.000	150.01	2071.6	524.19	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	318.1	572.5	0.590	0.520	12.469	10.987	1.8290E-04	1.9306E-04	-0.036
2	17	319.0	574.1	0.631	0.556	12.456	10.975	1.9584E-04	2.0673E-04	0.019
3	18	320.4	576.8	0.669	0.590	12.434	10.956	2.0817E-04	2.1978E-04	0.040
4	19	321.0	577.8	0.695	0.612	12.425	10.948	2.1625E-04	2.2831E-04	0.063
5	20	321.3	578.3	0.731	0.645	12.421	10.945	2.2784E-04	2.4055E-04	0.090
6	21	321.6	578.9	0.771	0.679	12.416	10.940	2.4026E-04	2.5368E-04	0.095
7	22	322.1	579.8	0.797	0.702	12.409	10.934	2.4835E-04	2.6223E-04	0.104
8	23	322.1	579.7	0.818	0.721	12.410	10.935	2.5502E-04	2.6926E-04	0.114
9	24	322.7	580.8	0.889	0.783	12.401	10.927	2.7731E-04	2.9281E-04	0.141
10	25	321.6	578.9	0.925	0.815	12.417	10.941	2.8831E-04	3.0440E-04	0.138
11	41	315.2	567.3	0.131	0.115	12.512	11.025	4.0333E-05	4.2565E-05	0.552
12	42	316.1	568.9	0.174	0.153	12.459	11.013	5.3773E-05	5.6752E-05	0.159
13	43	318.4	573.1	0.163	0.144	12.464	10.983	5.0695E-05	5.3513E-05	0.275
14	44	319.3	574.7	0.199	0.175	12.451	10.971	6.1795E-05	6.5234E-05	0.287
15	45	319.1	574.3	0.193	0.170	12.454	10.974	5.9800E-05	6.3127E-05	0.349
16	46	319.2	574.6	0.196	0.173	12.452	10.972	6.0953E-05	6.4344E-05	0.367
17	47	319.8	575.7	0.207	0.182	12.443	10.964	6.4321E-05	6.7903E-05	0.369
18	48	319.7	575.5	0.212	0.186	12.445	10.966	6.5747E-05	6.9408E-05	0.268
19	49	320.4	576.8	0.301	0.265	12.434	10.956	9.3610E-05	9.8828E-05	0.151
20	50	319.3	574.7	0.243	0.214	12.451	10.971	7.5485E-05	7.9686E-05	0.199
21	103	327.8	590.0	0.869	0.766	12.325	10.860	2.7293E-04	2.8830E-04	0.145
22	105	329.3	592.8	0.865	0.762	12.302	10.840	2.7217E-04	2.8752E-04	0.153
23	107	328.5	591.4	0.968	0.853	12.314	10.850	3.0437E-04	3.2152E-04	0.173
24	108	327.0	588.7	0.990	0.872	12.336	10.869	3.1063E-04	3.2810E-04	-0.005
25	110	325.3	585.5	0.822	0.725	12.362	10.892	2.5743E-04	2.7187E-04	-0.138
26	111	324.5	584.1	0.706	0.622	12.373	10.903	2.2081E-04	2.3318E-04	-0.016
27	112	322.9	581.3	0.489	0.431	12.397	10.923	1.5277E-04	1.6131E-04	0.249
28	113	321.7	579.1	0.297	0.262	12.415	10.939	9.2688E-05	9.7863E-05	0.412
29	114	319.7	575.4	0.094	0.083	12.445	10.966	2.9320E-05	3.0953E-05	0.522
30	115	318.0	572.3	0.023	0.020	12.471	10.988	7.1858E-06	7.5850E-06	0.264
31	203	324.0	583.2	0.865	0.763	12.381	10.909	2.7048E-04	2.8563E-04	0.129
32	205	325.0	585.1	0.954	0.841	12.365	10.896	2.9858E-04	3.1533E-04	0.126
33	207	324.5	584.0	0.761	0.670	12.374	10.903	2.3793E-04	2.5126E-04	0.125
34	208	323.6	582.5	0.661	0.582	12.387	10.914	2.0640E-04	2.1796E-04	-0.021
35	210	322.1	579.8	0.507	0.447	12.409	10.934	1.5803E-04	1.6686E-04	-0.141
36	211	321.4	578.6	0.435	0.383	12.419	10.943	1.3551E-04	1.4308E-04	0.001
37	212	320.3	576.5	0.303	0.267	12.436	10.958	9.4110E-05	9.9354E-05	0.256
38	213	338.7	609.7	-0.001	-0.001	12.163	10.717	-2.0215E-07	-2.1370E-07	1.613
39	214	338.7	609.7	0.000	0.000	12.163	10.717	6.9422E-16	7.3390E-16	*******
40	215	316.5	569.7	-0.017	-0.015	12.492	11.007	-5.3001E-06	-5.5939E-06	2.560
41	216	313.1	563.6	-0.023	-0.020	12.543	11.052	-7.0893E-06	-7.4805E-06	-0.098
42	217	313.2	563.8	-0.011	-0.010	12.541	11.051	-3.5093E-06	-3.7030E-06	-0.481
43	218	312.6	562.8	-0.008	-0.007	12.550	11.058	-2.5330E-06	-2.6727E-06	-0.290
44	219	312.6	562.7	-0.007	-0.006	12.550	11.058	-2.2132E-06	-2.3353E-06	-0.508
45	220	312.4	562.3	-0.008	-0.007	12.554	11.061	-2.3116E-06	-2.4393E-06	0.141
46	306	338.7	609.7	-0.000	-0.000	12.163	10.717	-4.8718E-08	-5.1502E-08	1.061
47	307	322.1	579.7	0.700	0.617	12.409	10.934	2.1834E-04	2.3053E-04	0.048
48	308	321.1	577.9	0.647	0.570	12.424	10.947	2.0150E-04	2.1274E-04	-0.097
49	309	320.1	576.3	0.542	0.478	12.438	10.960	1.6859E-04	1.7799E-04	-0.175
50	310	319.5	575.0	0.492	0.433	12.448	10.969	1.5278E-04	1.6129E-04	-0.082
51	311	338.7	609.7	-0.001	-0.001	12.163	10.717	-2.0233E-07	-2.1390E-07	0.582
52	312	316.2	569.1	0.229	0.202	12.497	11.011	7.0839E-05	7.4765E-05	0.421
53	313	314.9	566.8	0.119	0.105	12.516	11.029	3.6749E-05	3.8783E-05	0.585
54	314	315.5	567.9	0.023	0.020	12.507	11.020	7.0761E-06	7.4679E-06	1.329
55	315	314.9	566.8	-0.001	-0.000	12.516	11.028	-1.7063E-07	-1.8007E-07	-32.398
56	316	314.1	565.3	-0.004	-0.003	12.528	11.039	-1.1819E-06	-1.2473E-06	-2.258
57	317	313.2	563.8	-0.003	-0.002	12.541	11.050	-8.6132E-07	-9.0887E-07	-3.073
58	318	312.9	563.2	-0.002	-0.002	12.546	11.055	-5.4086E-07	-5.7070E-07	-3.709
59	319	312.5	562.5	-0.003	-0.002	12.551	11.059	-7.8690E-07	-8.3029E-07	-3.977
60	320	312.4	562.3	0.001	0.001	12.553	11.061	3.1953E-07	3.3715E-07	15.266
61	506	321.0	577.7	0.634	0.559	12.426	10.949	1.9751E-04	2.0852E-04	0.014
62	507	320.2	576.4	0.614	0.541	12.437	10.959	1.9091E-04	2.0155E-04	-0.001
63	508	318.9	574.1	0.567	0.500	12.456	10.976	1.7610E-04	1.8590E-04	-0.110
64	509	317.2	571.0	0.469	0.414	12.482	10.998	1.4545E-04	1.5352E-04	-0.246
65	510	318.0	572.3	0.400	0.353	12.471	10.988	1.2416E-04	1.3106E-04	-0.216
66	511	318.0	572.3	0.367	0.324	12.471	10.988	1.1387E-04	1.2020E-04	-0.148
67	512	317.3	571.1	0.262	0.231	12.481	10.997	8.1164E-05	8.5669E-05	0.201
68	513	316.7	570.0	0.174	0.154	12.490	11.005	5.4002E-05	5.6997E-05	0.476
69	514	315.5	567.9	0.051	0.045	12.507	11.020	1.5741E-05	1.6612E-05	0.945
70	515	314.3	565.7	0.014	0.012	12.525	11.037	4.1693E-06	4.3998E-06	1.927
71	601	314.9	566.9	0.000	0.000	12.516	11.028	0.0000E-39	0.0000E-39	-16.947
72	602	314.1	565.4	-0.000	-0.000	12.528	11.039	-0.0000E-39	-0.0000E-39	3.055
73	603	313.2	563.7	-0.000	-0.000	12.542	11.051	-0.0000E-39	-0.0000E-39	-0.814
74	604	312.3	562.1	-0.000	-0.000	12.555	11.062	-0.0000E-39	-0.0000E-39	-34.818
75	605	311.2	560.1	0.000	0.000	12.571	11.077	0.0000E-39	0.0000E-39	3.207

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6075E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.937	8.075	7.850
PT2/PTI	5.291E-02	5.383E-02	5.233E-02
TEMP(DEG R)	2115.0	2188.0	2260.7
TT2/TTI	1.0209	1.0562	1.0913

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HI DATA TEST NO. 182 RUN NO. 81 FRAME 26 TO 51 CONSTANT SET 571

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5262E 06	75.42	1957.80	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.602	1957.536	0.110	0.133	660.541	-0.273	17.6074
0.070	75.420	1957.536	0.105	0.133	657.579	-0.286	17.6115
0.140	75.420	1957.667	0.105	0.161	661.527	-0.286	17.6115
0.210	75.420	1958.063	0.107	0.380	663.496	-0.286	17.6155
0.280	75.420	1958.063	0.131	0.936	705.101	-0.273	17.6115
0.350	75.602	1957.535	0.373	1.743	1064.929	-0.273	17.6074
0.420	75.420	1957.140	1.160	2.349	1499.197	-0.286	17.5146
0.490	75.237	1957.799	2.274	2.994	1729.331	-0.286	17.6155
0.560	75.420	1958.457	3.048	3.530	1821.100	-0.286	17.6155
0.630	75.420	1958.062	3.419	3.800	1870.426	-0.273	17.6074
0.700	75.602	1957.534	3.703	3.822	1900.592	-0.273	17.6074
0.770	75.420	1957.140	3.901	3.633	1926.588	-0.312	20.4922
0.840	75.237	1957.272	4.008	3.411	1940.529	-0.299	34.8679
0.910	75.420	1957.798	4.023	3.286	1955.091	-0.299	34.9284
0.980	75.420	1958.061	4.008	3.266	1963.675	-0.286	34.9284
1.050	75.420	1957.271	3.981	3.299	1968.950	-0.286	34.9203
1.120	75.420	1957.271	3.965	3.375	1974.877	-0.286	34.9243
1.190	75.420	1957.138	3.955	3.433	1988.024	-0.286	34.9324
1.260	75.420	1957.799	3.962	3.475	1995.239	-0.299	34.9284
1.330	75.420	1957.797	3.970	3.494	2006.368	-0.286	34.9284
1.400	75.420	1957.270	3.962	3.511	2007.022	-0.286	34.9243
1.470	75.420	1956.874	3.965	3.516	2014.861	-0.286	34.9243
1.540	75.420	1957.007	3.981	3.522	2029.852	-0.299	34.9324
1.610	75.237	1957.664	3.981	3.530	2029.852	-0.299	34.9284
1.680	75.237	1957.795	3.978	3.541	2033.104	-0.286	34.9284
1.750	75.420	1956.872	3.970	3.541	2032.454	-0.286	34.9284

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.7264E 06	5.2620E 05	0.305	5.13	1087.7	0.11457E 07	0.3048	1.000	RUN NO. 81
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTL/LBM)	RS(FT)	HAW/HT	
5.10	5.2620E 05	5.2620E 05	1.000	75.42	1957.8	492.69	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.906)	H/HS(0.874)
1	16	0.267	0.0571	0.0571	0.0653	0.0690	39	214	0.297	0.0000	0.0000	0.0000	0.0000
2	17	0.268	0.0603	0.0603	0.0690	0.0729	40	215	0.266	0.0017	0.0017	0.0020	0.0021
3	18	0.269	0.0622	0.0622	0.0711	0.0751	41	216	0.265	-0.0005	-0.0005	-0.0006	-0.0006
4	19	0.268	0.0628	0.0628	0.0719	0.0759	42	217	0.267	-0.0007	-0.0007	-0.0008	-0.0008
5	20	0.269	0.0648	0.0648	0.0741	0.0782	43	218	0.264	0.0000	0.0000	0.0000	0.0000
6	21	0.269	0.0687	0.0687	0.0786	0.0830	44	219	0.265	-0.0014	-0.0014	-0.0016	-0.0017
7	22	0.269	0.0712	0.0712	0.0815	0.0861	45	220	0.264	-0.0003	-0.0003	-0.0003	-0.0004
8	23	0.269	0.0722	0.0722	0.0826	0.0873	46	306	0.297	0.0000	0.0000	0.0001	0.0001
9	24	0.270	0.0760	0.0760	0.0870	0.0919	47	307	0.296	0.0066	0.0066	0.0076	0.0081
10	25	0.269	0.0794	0.0794	0.0909	0.0960	48	308	0.269	0.0579	0.0579	0.0662	0.0699
11	41	0.266	0.0124	0.0124	0.0142	0.0150	49	309	0.268	0.0474	0.0474	0.0542	0.0572
12	42	0.266	0.0168	0.0168	0.0192	0.0203	50	310	0.268	0.0424	0.0424	0.0485	0.0513
13	43	0.268	0.0157	0.0157	0.0179	0.0189	51	311	0.297	-0.0000	-0.0000	-0.0000	-0.0000
14	44	0.268	0.0176	0.0176	0.0202	0.0213	52	312	0.266	0.0187	0.0187	0.0214	0.0226
15	45	0.268	0.0175	0.0175	0.0200	0.0211	53	313	0.266	0.0083	0.0083	0.0095	0.0101
16	46	0.268	0.0171	0.0171	0.0195	0.0206	54	314	0.266	0.0024	0.0024	0.0027	0.0029
17	47	0.268	0.0195	0.0195	0.0223	0.0235	55	315	0.266	0.0005	0.0005	0.0006	0.0007
18	48	0.268	0.0178	0.0178	0.0203	0.0215	56	316	0.265	-0.0001	-0.0001	-0.0002	-0.0002
19	49	0.269	0.0200	0.0200	0.0228	0.0241	57	317	0.265	0.0000	0.0000	0.0001	0.0001
20	50	0.268	0.0211	0.0211	0.0241	0.0255	58	318	0.265	-0.0000	-0.0000	-0.0000	-0.0000
21	103	0.272	0.0739	0.0739	0.0846	0.0894	59	319	0.265	-0.0003	-0.0003	-0.0004	-0.0004
22	105	0.273	0.0744	0.0744	0.0851	0.0900	60	320	0.265	0.0001	0.0001	0.0001	0.0001
23	107	0.273	0.0805	0.0805	0.0922	0.0974	61	506	0.269	0.0612	0.0612	0.0700	0.0740
24	108	0.272	0.0768	0.0768	0.0879	0.0929	62	507	0.268	0.0591	0.0591	0.0676	0.0714
25	110	0.271	0.0601	0.0601	0.0688	0.0727	63	508	0.268	0.0550	0.0550	0.0629	0.0665
26	111	0.270	0.0503	0.0503	0.0575	0.0608	64	509	0.267	0.0450	0.0450	0.0515	0.0544
27	112	0.270	0.0335	0.0335	0.0383	0.0405	65	510	0.267	0.0385	0.0385	0.0440	0.0465
28	113	0.269	0.0190	0.0190	0.0217	0.0230	66	511	0.267	0.0357	0.0357	0.0408	0.0431
29	114	0.268	0.0046	0.0046	0.0053	0.0056	67	512	0.267	0.0249	0.0249	0.0285	0.0301
30	115	0.267	0.0011	0.0011	0.0012	0.0013	68	513	0.267	0.0150	0.0150	0.0171	0.0181
31	203	0.270	0.0739	0.0739	0.0846	0.0894	69	514	0.266	0.0032	0.0032	0.0036	0.0038
32	205	0.271	0.0771	0.0771	0.0882	0.0932	70	515	0.265	0.0003	0.0003	0.0004	0.0004
33	207	0.270	0.0683	0.0683	0.0782	0.0826	71	601	0.266	0.0000	0.0000	0.0000	0.0000
34	208	0.270	0.0618	0.0618	0.0707	0.0747	72	602	0.265	0.0000	0.0000	0.0000	0.0000
35	210	0.269	0.0478	0.0478	0.0547	0.0578	73	603	0.265	0.0000	0.0000	0.0000	0.0000
36	211	0.269	0.0405	0.0405	0.0464	0.0490	74	604	0.264	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.268	0.0285	0.0285	0.0327	0.0345	75	605	0.264	0.0000	0.0000	0.0000	0.0000
38	213	0.297	-0.0001	-0.0001	-0.0001	-0.0001							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 162
5.10	1.7264E C6	5.2620E 05	0.305	5.13	1087.7	0.11457E 07	0.3048	1.000	RUN NO. 81
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.2620E C5	5.2620E 05	1.000	75.42	1957.8	492.69	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	305.0	549.0	0.472	0.416	8.262	7.280	2.9930E-04	3.1608E-04	0.097
2	17	305.5	549.9	0.498	0.439	8.257	7.275	3.1624E-04	3.3398E-04	0.135
3	18	306.4	551.4	0.513	0.452	8.248	7.267	3.2583E-04	3.4413E-04	0.133
4	19	306.6	551.9	0.518	0.457	8.245	7.265	3.2944E-04	3.4794E-04	0.145
5	20	306.7	552.1	0.534	0.470	8.244	7.264	3.3949E-04	3.5856E-04	0.149
6	21	306.5	552.4	0.566	0.499	8.242	7.262	3.6015E-04	3.8039E-04	0.162
7	22	307.1	552.8	0.587	0.517	8.240	7.260	3.7345E-04	3.9444E-04	0.175
8	23	307.1	552.7	0.595	0.524	8.240	7.261	3.7871E-04	3.9999E-04	0.174
9	24	307.4	553.4	0.626	0.552	8.236	7.257	3.9849E-04	4.2091E-04	0.185
10	25	306.8	552.2	0.655	0.577	8.243	7.263	4.1636E-04	4.3976E-04	0.182
11	41	303.4	546.1	0.103	0.090	8.279	7.295	6.4943E-05	6.8575E-05	0.621
12	42	303.9	547.0	0.139	0.122	8.274	7.290	8.8023E-05	9.2948E-05	0.461
13	43	305.2	549.4	0.130	0.114	8.259	7.277	8.2219E-05	8.6829E-05	0.491
14	44	305.8	550.4	0.146	0.128	8.254	7.273	9.2440E-05	9.7627E-05	0.463
15	45	305.5	549.9	0.144	0.127	8.256	7.275	9.1493E-05	9.6625E-05	0.472
16	46	305.5	549.9	0.141	0.124	8.256	7.275	8.9484E-05	9.4503E-05	0.490
17	47	305.8	550.5	0.161	0.142	8.253	7.272	1.0207E-04	1.0779E-04	0.479
18	48	305.7	550.3	0.147	0.129	8.254	7.273	9.3157E-05	9.8384E-05	0.505
19	49	306.3	551.4	0.165	0.145	8.248	7.267	1.0462E-04	1.1049E-04	0.442
20	50	305.5	550.0	0.174	0.153	8.256	7.275	1.1046E-04	1.1665E-04	0.347
21	103	310.4	558.8	0.607	0.535	8.205	7.230	3.8780E-04	4.0970E-04	0.172
22	105	311.4	560.5	0.609	0.537	8.195	7.221	3.9005E-04	4.1211E-04	0.187
23	107	310.9	559.7	0.660	0.582	8.199	7.225	4.2222E-04	4.4609E-04	0.185
24	108	310.1	558.1	0.631	0.556	8.208	7.233	4.0282E-04	4.2556E-04	0.023
25	110	308.9	556.1	0.494	0.435	8.220	7.243	3.1519E-04	3.3296E-04	-0.034
26	111	308.6	555.4	0.413	0.364	8.224	7.247	2.6358E-04	2.7843E-04	0.101
27	112	307.6	553.7	0.276	0.243	8.234	7.256	1.7572E-04	1.8561E-04	0.406
28	113	306.9	552.4	0.157	0.138	8.242	7.262	9.9575E-05	1.0517E-04	0.589
29	114	305.7	550.3	0.038	0.034	8.254	7.273	2.4328E-05	2.5693E-05	0.716
30	115	304.7	548.4	0.009	0.008	8.265	7.283	5.5984E-06	5.9121E-06	0.641
31	203	308.1	554.7	0.608	0.536	8.229	7.251	3.8768E-04	4.0951E-04	0.170
32	205	308.7	555.7	0.634	0.558	8.223	7.245	4.0409E-04	4.2686E-04	0.168
33	207	308.6	555.4	0.562	0.495	8.224	7.247	3.5812E-04	3.7830E-04	0.177
34	208	307.5	554.3	0.509	0.448	8.231	7.253	3.2407E-04	3.4231E-04	0.049
35	210	307.1	552.8	0.394	0.347	8.240	7.260	2.5059E-04	2.6468E-04	-0.055
36	211	306.7	552.1	0.334	0.294	8.244	7.264	2.1250E-04	2.2444E-04	0.087
37	212	306.0	550.8	0.236	0.208	8.251	7.271	1.4965E-04	1.5805E-04	0.382
38	213	338.7	609.7	-0.000	-0.000	7.909	6.968	-3.1615E-07	-3.3478E-07	1.918
39	214	338.7	609.7	0.000	0.000	7.908	6.968	9.1402E-16	9.6787E-16	*******
40	215	303.9	547.0	0.014	0.012	8.274	7.290	8.9726E-06	9.4747E-06	0.947
41	216	302.0	543.6	-0.004	-0.004	8.293	7.308	-2.8199E-06	-2.9772E-06	-1.673
42	217	304.5	548.0	-0.006	-0.005	8.267	7.285	-3.5309E-06	-3.7287E-06	0.441
43	218	301.7	543.1	0.000	0.000	8.296	7.310	2.0352E-07	2.1487E-07	15.976
44	219	301.8	543.2	-0.012	-0.010	8.296	7.310	-7.3195E-06	-7.7279E-06	0.735
45	220	301.6	542.8	-0.002	-0.002	8.298	7.312	-1.5758E-06	-1.6637E-06	-1.798
46	306	338.7	609.7	0.000	0.000	7.908	6.968	2.5348E-07	2.6841E-07	1.450
47	307	337.9	608.3	0.052	0.046	7.917	6.976	3.4777E-05	3.6823E-05	-0.300
48	308	306.7	552.0	0.477	0.420	8.244	7.264	3.0335E-04	3.2039E-04	-0.003
49	309	306.1	551.1	0.391	0.344	8.250	7.269	2.4842E-04	2.6237E-04	-0.079
50	310	305.7	550.3	0.350	0.309	8.254	7.273	2.2242E-04	2.3490E-04	0.013
51	311	338.7	609.7	-0.000	-0.000	7.908	6.968	-1.0556E-07	-1.1178E-07	2.105
52	312	303.9	546.9	0.155	0.136	8.274	7.290	9.7986E-05	1.0347E-04	0.555
53	313	303.3	545.9	0.069	0.061	8.280	7.296	4.3697E-05	4.6140E-05	0.619
54	314	303.6	546.4	0.020	0.018	8.277	7.293	1.2599E-05	1.3304E-05	1.258
55	315	303.2	545.8	0.004	0.004	8.281	7.296	2.8222E-06	2.9799E-06	2.562
56	316	302.7	544.8	-0.001	-0.001	8.286	7.301	-7.6311E-07	-8.0573E-07	-2.391
57	317	302.2	543.9	0.000	0.000	8.291	7.306	2.5459E-07	2.6881E-07	11.054
58	318	302.0	543.7	-0.000	-0.000	8.293	7.307	-5.0624E-08	-5.3450E-08	-34.344
59	319	301.8	543.3	-0.003	-0.002	8.295	7.309	-1.6779E-06	-1.7715E-06	-0.020
60	320	301.8	543.3	0.001	0.001	8.295	7.309	4.0550E-07	4.2813E-07	9.058
61	506	306.6	551.9	0.505	0.445	8.245	7.265	3.2090E-04	3.3893E-04	0.114
62	507	306.3	551.3	0.487	0.429	8.248	7.268	3.0976E-04	3.2715E-04	0.095
63	508	305.6	550.0	0.454	0.400	8.256	7.275	2.8837E-04	3.0455E-04	0.007
64	509	304.6	548.3	0.372	0.328	8.266	7.283	2.3595E-04	2.4917E-04	-0.115
65	510	305.0	549.0	0.318	0.280	8.262	7.280	2.0161E-04	2.1291E-04	-0.078
66	511	304.9	548.8	0.295	0.260	8.263	7.281	1.8722E-04	1.9771E-04	0.028
67	512	304.5	548.0	0.206	0.181	8.268	7.285	1.3046E-04	1.3777E-04	0.389
68	513	304.2	547.5	0.124	0.109	8.270	7.287	7.8581E-05	8.2980E-05	0.624
69	514	303.5	546.3	0.026	0.023	8.277	7.294	1.6682E-05	1.7615E-05	0.918
70	515	302.7	544.9	0.003	0.002	8.286	7.301	1.6110E-06	1.7010E-06	2.809
71	601	303.0	545.5	0.000	0.000	8.282	7.298	0.0000E-39	0.0000E-39	-1.484
72	602	302.5	544.5	0.000	0.000	8.288	7.303	0.0000E-39	0.0000E-39	*******
73	603	301.9	543.5	0.000	0.000	8.294	7.308	0.0000E-39	0.0000E-39	2.805
74	604	301.5	542.7	-0.000	-0.000	8.298	7.312	-0.0000E-39	-0.0000E-39	-1.655
75	605	300.8	541.5	0.000	0.000	8.306	7.319	0.0000E-39	0.0000E-39	13.421

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3677E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.752	3.970	3.541
PT2/PT1	4.974E-02	5.264E-02	4.696E-02
TEMP(DEG R)	1994.6	2032.5	2034.4
TT2/TT1	1.0188	1.0381	1.0391

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 82 FRAME 26 TO 51 CONSTANT SET 571

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5077E 06		75.24	1997.09	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.420	1996.833	0.108	0.140	662.512	-0.273	17.6034
0.070	75.054	1996.438	0.105	0.132	662.512	-0.273	17.6074
0.140	75.420	1996.570	0.105	0.170	662.512	-0.286	17.6155
0.210	75.237	1997.356	0.108	0.407	666.444	-0.286	17.6115
0.280	75.420	1997.225	0.134	1.018	711.748	-0.273	17.5994
0.350	75.420	1996.568	0.402	1.844	1093.655	-0.273	17.4985
0.420	75.237	1996.570	1.246	2.406	1491.313	-0.273	17.6074
0.490	75.237	1996.702	2.279	2.973	1663.344	-0.299	17.6115
0.560	75.420	1997.225	2.917	3.487	1771.300	-0.299	17.6115
0.630	75.237	1997.225	3.256	3.771	1848.863	-0.273	17.6115
0.700	75.420	1996.701	3.571	3.843	1905.936	-0.273	17.6115
0.770	75.054	1996.310	3.831	3.660	1939.203	-0.312	26.6250
0.840	75.237	1996.573	3.971	3.373	1953.108	-0.286	34.9284
0.910	75.237	1997.094	3.993	3.179	1972.244	-0.299	34.9284
0.980	75.237	1997.091	3.998	3.145	1993.272	-0.286	34.9284
1.050	75.420	1996.572	3.971	3.187	1993.272	-0.286	34.9243
1.120	75.237	1996.568	3.950	3.215	1993.928	-0.286	34.9243
1.190	75.237	1996.566	3.934	3.243	2001.134	-0.299	34.9324
1.260	75.237	1997.094	3.934	3.270	2018.776	-0.299	34.9284
1.330	75.237	1997.484	3.940	3.290	2025.294	-0.286	34.9284
1.400	75.237	1996.435	3.950	3.298	2031.804	-0.273	34.9243
1.470	75.237	1996.306	3.950	3.323	2045.444	-0.286	34.9243
1.540	75.237	1996.698	3.961	3.346	2046.093	-0.299	34.9284
1.610	75.420	1996.961	3.950	3.351	2047.390	-0.299	34.9324
1.680	75.237	1997.484	3.947	3.334	2053.870	-0.286	34.9284
1.750	75.420	1996.568	3.947	3.326	2062.280	-0.286	34.9203

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6656E 06	5.0768E 05	0.305	5.12	1109.5	0.11709E 07	0.3048	1.000	RUN NO. 82
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.0768E 05	5.0768E 05	1.000	75.24	1997.1	503.53	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.262	0.0599	0.0599	0.0684	0.0722
2	17	0.262	0.0633	0.0633	0.0723	0.0763
3	18	0.263	0.0671	0.0671	0.0766	0.0809
4	19	0.263	0.0690	0.0690	0.0789	0.0833
5	20	0.263	0.0713	0.0713	0.0815	0.0861
6	21	0.264	0.0752	0.0752	0.0859	0.0907
7	22	0.264	0.0769	0.0769	0.0878	0.0927
8	23	0.264	0.0776	0.0776	0.0887	0.0936
9	24	0.264	0.0815	0.0815	0.0931	0.0983
10	25	0.264	0.0852	0.0852	0.0973	0.1027
11	41	0.261	0.0124	0.0124	0.0141	0.0149
12	42	0.261	0.0159	0.0159	0.0182	0.0192
13	43	0.262	0.0155	0.0155	0.0177	0.0187
14	44	0.262	0.0181	0.0181	0.0207	0.0218
15	45	0.262	0.0181	0.0181	0.0207	0.0218
16	46	0.262	0.0178	0.0178	0.0203	0.0214
17	47	0.263	0.0202	0.0202	0.0231	0.0244
18	48	0.263	0.0184	0.0184	0.0211	0.0222
19	49	0.263	0.0213	0.0213	0.0244	0.0257
20	50	0.263	0.0228	0.0228	0.0260	0.0275
21	103	0.267	0.0860	0.0860	0.0983	0.1038
22	105	0.268	0.0867	0.0867	0.0991	0.1047
23	107	0.267	0.0935	0.0935	0.1070	0.1130
24	108	0.267	0.0894	0.0894	0.1022	0.1079
25	110	0.266	0.0694	0.0694	0.0794	0.0838
26	111	0.265	0.0578	0.0578	0.0660	0.0697
27	112	0.264	0.0375	0.0375	0.0429	0.0453
28	113	0.266	0.0210	0.0210	0.0240	0.0253
29	114	0.263	0.0053	0.0053	0.0061	0.0064
30	115	0.262	0.0010	0.0010	0.0011	0.0012
31	203	0.265	0.0864	0.0864	0.0988	0.1043
32	205	0.266	0.0793	0.0793	0.0907	0.0957
33	207	0.265	0.0768	0.0768	0.0878	0.0927
34	208	0.265	0.0736	0.0736	0.0841	0.0888
35	210	0.264	0.0570	0.0570	0.0651	0.0688
36	211	0.264	0.0479	0.0479	0.0548	0.0578
37	212	0.263	0.0332	0.0332	0.0380	0.0401
38	213	0.291	-0.0002	-0.0002	-0.0002	-0.0002
39	214	0.291	0.0000	0.0000	0.0000	0.0000
40	215	0.261	0.0029	0.0029	0.0033	0.0035
41	216	0.259	-0.0003	-0.0003	0.0004	-0.0004
42	217	0.261	-0.0004	-0.0004	0.0005	-0.0005
43	218	0.259	-0.0001	-0.0001	0.0001	-0.0001
44	219	0.259	0.0003	0.0003	0.0004	0.0004
45	220	0.259	-0.0000	-0.0000	0.0000	-0.0000
46	306	0.291	0.0000	0.0000	0.0000	0.0000
47	307	0.290	0.0053	0.0053	0.0061	0.0065
48	308	0.264	0.0651	0.0651	0.0744	0.0786
49	309	0.263	0.0532	0.0532	0.0608	0.0642
50	310	0.263	0.0476	0.0476	0.0544	0.0574
51	311	0.291	0.0001	0.0001	0.0001	0.0001
52	312	0.261	0.0223	0.0223	0.0255	0.0269
53	313	0.260	0.0116	0.0116	0.0132	0.0140
54	314	0.261	0.0008	0.0008	0.0010	0.0010
55	315	0.260	0.0007	0.0007	0.0008	0.0008
56	316	0.260	0.0000	0.0000	0.0000	0.0000
57	317	0.259	0.0001	0.0001	0.0001	0.0001
58	318	0.259	-0.0001	-0.0001	0.0001	-0.0001
59	319	0.259	-0.0001	-0.0001	0.0001	-0.0001
60	320	0.259	0.0003	0.0003	0.0003	0.0003
61	506	0.264	0.0655	0.0655	0.0749	0.0790
62	507	0.263	0.0637	0.0637	0.0728	0.0768
63	508	0.263	0.0595	0.0595	0.0680	0.0718
64	509	0.262	0.0499	0.0499	0.0570	0.0601
65	510	0.262	0.0421	0.0421	0.0481	0.0507
66	511	0.262	0.0389	0.0389	0.0444	0.0469
67	512	0.261	0.0251	0.0251	0.0287	0.0303
68	513	0.261	0.0151	0.0151	0.0173	0.0183
69	514	0.261	0.0024	0.0024	0.0028	0.0029
70	515	0.260	0.0003	0.0003	0.0003	0.0003
71	601	0.260	0.0000	0.0000	0.0000	0.0000
72	602	0.260	0.0000	0.0000	0.0000	0.0000
73	603	0.259	-0.0000	-0.0000	0.0000	-0.0000
74	604	0.259	0.0000	0.0000	0.0000	0.0000
75	605	0.258	-0.0000	-0.0000	0.0000	-0.0000

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6656E 06	5.0768E 05 0.305	5.12	1109.5	0.1170?E 07	0.3048	1.000	RUN NO. 82
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.0768E 05	5.0768E 05 1.000	75.24	1997.1	503.53	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	305.4	549.7	0.509	0.448	8.495	7.485	3.1851E-04	3.3621E-04	0.141
2	17	305.8	550.5	0.537	0.473	8.490	7.481	3.3657E-04	3.5528E-04	0.166
3	18	306.6	552.0	0.569	0.501	8.482	7.474	3.5683E-04	3.7669E-04	0.178
4	19	306.9	552.4	0.585	0.516	8.479	7.471	3.6737E-04	3.8782E-04	0.176
5	20	307.1	552.8	0.605	0.533	8.477	7.469	3.7953E-04	4.0067E-04	0.183
6	21	307.3	553.2	0.637	0.561	8.475	7.467	4.0004E-04	4.2232E-04	0.193
7	22	307.6	553.7	0.651	0.574	8.471	7.464	4.0890E-04	4.3169E-04	0.198
8	23	307.7	553.8	0.657	0.579	8.471	7.464	4.1285E-04	4.3586E-04	0.198
9	24	308.0	554.4	0.690	0.608	8.467	7.461	4.3350E-04	4.5767E-04	0.202
10	25	307.6	553.6	0.721	0.636	8.472	7.465	4.5307E-04	4.7831E-04	0.204
11	41	303.7	546.7	0.105	0.093	8.512	7.501	6.5890E-05	6.9542E-05	0.636
12	42	304.1	547.5	0.136	0.119	8.508	7.497	8.4731E-05	8.9430E-05	0.489
13	43	305.4	549.7	0.132	0.116	8.495	7.485	8.2461E-05	8.7042E-05	0.519
14	44	305.9	550.6	0.154	0.135	8.490	7.481	9.6297E-05	1.0165E-04	0.491
15	45	305.7	550.3	0.154	0.135	8.491	7.482	9.6290E-05	1.0164E-04	0.501
16	46	305.8	550.5	0.151	0.133	8.490	7.481	9.4453E-05	9.9703E-05	0.519
17	47	306.2	551.2	0.172	0.151	8.486	7.477	1.0773E-04	1.1372E-04	0.492
18	48	306.2	551.1	0.156	0.138	8.487	7.478	9.8085E-05	1.0354E-04	0.527
19	49	306.7	552.1	0.181	0.159	8.481	7.473	1.1343E-04	1.1974E-04	0.476
20	50	306.1	551.0	0.193	0.170	8.487	7.478	1.2112E-04	1.2785E-04	0.407
21	103	311.5	560.7	0.725	0.639	8.430	7.428	4.5757E-04	4.8321E-04	0.231
22	105	312.4	562.3	0.730	0.643	8.421	7.420	4.6138E-04	4.8727E-04	0.231
23	107	311.8	561.3	0.788	0.694	8.427	7.426	4.9781E-04	5.2571E-04	0.220
24	108	310.8	559.5	0.754	0.664	8.437	7.435	4.7568E-04	5.0231E-04	0.086
25	110	309.7	557.4	0.587	0.517	8.450	7.445	3.6940E-04	3.9005E-04	0.042
26	111	309.2	556.6	0.488	0.430	8.455	7.450	3.0739E-04	3.2456E-04	0.172
27	112	308.2	554.7	0.317	0.280	8.466	7.459	1.9955E-04	2.1068E-04	0.436
28	113	307.4	553.4	0.178	0.157	8.473	7.466	1.1156E-04	1.1778E-04	0.601
29	114	306.2	551.1	0.045	0.040	8.487	7.478	2.8340E-05	2.9916E-05	0.680
30	115	305.1	549.1	0.008	0.007	8.498	7.488	5.0770E-06	5.3589E-06	0.083
31	203	309.2	556.6	0.731	0.644	8.455	7.450	4.5987E-04	4.8555E-04	0.223
32	205	309.8	557.7	0.670	0.590	8.448	7.444	4.2211E-04	4.4571E-04	0.209
33	207	309.5	557.1	0.649	0.572	8.452	7.447	4.0887E-04	4.3172E-04	0.204
34	208	308.8	555.9	0.623	0.549	8.459	7.453	3.9162E-04	4.1348E-04	0.109
35	210	307.9	554.1	0.483	0.425	8.469	7.462	3.0318E-04	3.2008E-04	0.014
36	211	307.5	553.4	0.406	0.358	8.473	7.466	2.5510E-04	2.6931E-04	0.143
37	212	306.7	552.0	0.282	0.248	8.481	7.473	1.7671E-04	1.8654E-04	0.415
38	213	338.7	609.7	-0.001	-0.001	8.146	7.177	-8.3147E-07	-8.7992E-07	1.419
39	214	338.7	609.7	0.000	0.000	8.145	7.177	1.7143E-15	1.8142E-15	*******
40	215	304.3	547.7	0.025	0.022	8.506	7.495	1.5471E-05	1.6329E-05	1.320
41	216	302.3	544.2	-0.003	-0.003	8.527	7.514	-1.8376E-06	-1.9392E-06	-2.542
42	217	304.8	548.6	-0.003	-0.003	8.501	7.491	-2.1887E-06	-2.3102E-06	0.301
43	218	302.1	543.7	-0.001	-0.001	8.530	7.516	-5.0173E-07	-5.2947E-07	-4.903
44	219	302.1	543.8	0.003	0.003	8.530	7.516	1.8566E-06	1.9593E-06	3.082
45	220	301.9	543.5	-0.000	-0.000	8.531	7.517	-1.5097E-07	-1.5931E-07	-7.406
46	306	338.7	609.7	0.000	0.000	8.145	7.177	1.0026E-07	1.0610E-07	2.224
47	307	338.6	609.6	0.043	0.038	8.146	7.178	2.8315E-05	2.9965E-05	0.548
48	308	307.2	553.0	0.552	0.486	8.475	7.466	3.4649E-04	3.6575E-04	0.047
49	309	306.6	551.9	0.451	0.396	8.482	7.474	2.8313E-04	2.9888E-04	-0.036
50	310	306.3	551.3	0.404	0.356	8.486	7.477	2.5329E-04	2.6737E-04	0.048
51	311	338.7	609.7	0.001	0.001	8.145	7.177	4.1536E-07	4.3957E-07	1.432
52	312	304.3	547.7	0.190	0.167	8.506	7.495	1.1857E-04	1.2514E-04	0.560
53	313	303.5	546.3	0.099	0.087	8.515	7.503	6.1619E-05	6.5033E-05	0.700
54	314	303.7	546.7	0.007	0.006	8.513	7.501	4.4253E-06	4.6706E-06	0.214
55	315	303.3	545.9	0.006	0.005	8.517	7.504	3.6287E-06	3.8297E-06	1.366
56	316	302.8	545.0	0.000	0.000	8.522	7.509	1.5095E-07	1.5930E-07	7.486
57	317	302.4	544.3	0.001	0.001	8.527	7.513	6.0234E-07	6.3566E-07	5.088
58	318	302.1	543.8	-0.001	-0.001	8.529	7.515	-5.0187E-07	-5.2962E-07	-0.466
59	319	302.0	543.5	-0.001	-0.001	8.531	7.517	-5.5265E-07	-5.8320E-07	-1.831
60	320	302.0	543.5	0.002	0.002	8.531	7.517	1.3536E-06	1.4284E-06	2.865
61	506	307.3	553.1	0.555	0.489	8.475	7.467	3.4862E-04	3.6803E-04	0.170
62	507	306.9	552.5	0.540	0.476	8.479	7.471	3.3880E-04	3.5766E-04	0.130
63	508	306.2	551.2	0.505	0.445	8.486	7.478	3.1680E-04	3.3442E-04	0.031
64	509	305.1	549.2	0.424	0.374	8.498	7.488	2.6536E-04	2.8009E-04	-0.039
65	510	305.4	549.8	0.357	0.315	8.494	7.485	2.2380E-04	2.3623E-04	-0.011
66	511	305.3	549.6	0.330	0.291	8.495	7.486	2.0683E-04	2.1833E-04	0.040
67	512	304.8	548.7	0.213	0.188	8.501	7.491	1.3347E-04	1.4088E-04	0.375
68	513	304.5	548.1	0.129	0.113	8.504	7.493	8.0526E-05	8.4994E-05	0.612
69	514	303.7	546.7	0.021	0.018	8.512	7.501	1.2930E-05	1.3647E-05	0.583
70	515	302.9	545.3	0.002	0.002	8.521	7.508	1.5405E-06	1.6258E-06	1.015
71	601	303.4	546.1	0.000	0.000	8.516	7.504	0.0000E-39	0.0000E-39	-0.702
72	602	302.8	545.0	0.000	0.000	8.522	7.509	0.0000E-39	0.0000E-39	-24.737
73	603	302.3	544.1	-0.000	-0.000	8.528	7.514	-0.0000E-39	-0.0000E-39	1.851
74	604	301.8	543.3	0.000	0.000	8.533	7.518	0.0000E-39	0.0000E-39	2.884
75	605	301.1	542.1	-0.000	-0.000	8.540	7.524	-0.0000E-39	-0.0000E-39	-30.037

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3444E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.533	3.947	3.326
PT2/PT1	4.696E-02	5.247E-02	4.421E-02
TEMP(DEG R)	1929.2	2062.3	2090.0
TT2/TT1	0.9660	1.0326	1.0465

ORIGINAL PAGE IS OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MUFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 83 FRAME 25 TO 52 CONSTANT SET 571

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.95896 06		149.54	2058.36	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.544	2059.648	0.163	0.214	691.705	-0.280	17.5648
0.070	149.544	2058.874	0.163	0.217	690.742	-0.280	17.6092
0.140	149.361	2058.744	0.163	0.273	692.666	-0.280	17.6092
0.210	149.544	2058.613	0.163	0.692	699.377	-0.280	17.6092
0.280	149.544	2059.127	0.194	1.893	766.494	-0.280	17.6132
0.350	149.544	2059.517	0.729	3.450	1242.232	-0.267	17.5204
0.420	149.544	2058.487	2.407	4.726	1656.355	-0.267	17.5890
0.490	149.361	2058.484	4.535	6.193	1846.836	-0.293	17.6011
0.560	149.361	2058.357	5.913	7.383	1929.247	-0.293	17.6092
0.630	149.544	2058.484	6.776	7.964	2021.385	-0.293	17.6132
0.700	149.361	2057.263	7.517	8.003	2064.865	-0.293	17.6052
0.770	149.544	2058.482	7.994	7.617	2086.140	-0.280	34.8996
0.840	149.544	2058.097	8.174	7.202	2098.989	-0.280	34.9037
0.910	149.544	2058.357	8.168	7.000	2111.805	-0.306	34.9238
0.980	149.544	2058.487	8.126	7.002	2126.503	-0.293	34.9319
1.050	149.544	2059.135	8.092	7.139	2134.792	-0.293	34.9319
1.120	149.544	2058.226	8.047	7.277	2129.693	-0.280	34.9238
1.190	149.544	2057.840	8.020	7.369	2136.703	-0.293	34.9279
1.260	149.544	2058.097	8.020	7.433	2139.250	-0.306	34.9319
1.330	149.544	2058.484	8.044	7.480	2145.612	-0.293	34.9319
1.400	149.544	2059.006	8.068	7.503	2162.749	-0.293	34.9319
1.470	149.544	2058.100	8.070	7.508	2156.409	-0.293	34.9238
1.540	149.544	2057.841	8.047	7.526	2166.550	-0.293	34.9238
1.610	149.544	2058.226	8.055	7.564	2174.143	-0.293	34.9319
1.680	149.544	2058.231	8.055	7.603	2164.650	-0.293	34.9319
1.750	149.544	2059.006	8.041	7.619	2156.409	-0.293	34.9319
1.820	149.544	2057.970	8.047	7.628	2177.936	-0.280	34.9238
1.890	149.544	2057.843	8.065	7.658	2181.094	-0.293	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1461E 06	9.5892E 05	0.305	10.17	1143.5	0.12104E 07	0.3048	1.000	RUN NO. 83
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5892E 05	9.5892E 05	1.000	149.54	2058.4	520.50	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.255	0.0468	0.0468	0.0535	0.0564	39	214	0.281	0.0000	0.0000	0.0000	0.0000
2	17	0.256	0.0503	0.0503	0.0574	0.0606	40	215	0.254	0.0001	0.0001	0.0002	0.0002
3	18	0.257	0.0528	0.0528	0.0602	0.0635	41	216	0.251	-0.0016	-0.0016	0.0018	-0.0019
4	19	0.258	0.0547	0.0547	0.0625	0.0659	42	217	0.254	-0.0011	-0.0011	0.0013	-0.0014
5	20	0.258	0.0568	0.0568	0.0648	0.0684	43	218	0.251	-0.0002	-0.0002	0.0003	-0.0003
6	21	0.258	0.0602	0.0602	0.0687	0.0725	44	219	0.251	-0.0004	-0.0004	0.0004	-0.0005
7	22	0.259	0.0620	0.0620	0.0708	0.0747	45	220	0.251	-0.0006	-0.0006	0.0006	-0.0007
8	23	0.259	0.0624	0.0624	0.0712	0.0752	46	306	0.281	-0.0000	-0.0000	0.0000	-0.0000
9	24	0.259	0.0665	0.0665	0.0759	0.0801	47	307	0.281	0.0014	0.0014	0.0016	0.0017
10	25	0.259	0.0687	0.0687	0.0784	0.0828	48	308	0.258	0.0499	0.0499	0.0570	0.0602
11	41	0.253	0.0103	0.0103	0.0118	0.0124	49	309	0.257	0.0417	0.0417	0.0475	0.0502
12	42	0.254	0.0133	0.0133	0.0152	0.0160	50	310	0.257	0.0377	0.0377	0.0431	0.0454
13	43	0.256	0.0125	0.0125	0.0143	0.0151	51	311	0.281	0.0000	0.0000	0.0000	0.0000
14	44	0.256	0.0152	0.0152	0.0174	0.0183	52	312	0.254	0.0175	0.0175	0.0200	0.0211
15	45	0.256	0.0144	0.0144	0.0165	0.0174	53	313	0.253	0.0098	0.0098	0.0112	0.0118
16	46	0.256	0.0146	0.0146	0.0167	0.0176	54	314	0.253	0.0020	0.0020	0.0023	0.0024
17	47	0.257	0.0159	0.0159	0.0181	0.0191	55	315	0.253	0.0004	0.0004	0.0005	0.0005
18	48	0.257	0.0149	0.0149	0.0170	0.0180	56	316	0.252	0.0002	0.0002	0.0002	0.0002
19	49	0.257	0.0209	0.0209	0.0238	0.0251	57	317	0.252	0.0001	0.0001	0.0001	0.0001
20	50	0.257	0.0173	0.0173	0.0198	0.0209	58	318	0.251	-0.0003	-0.0003	0.0003	-0.0003
21	103	0.263	0.0644	0.0644	0.0736	0.0777	59	319	0.251	-0.0005	-0.0005	0.0005	-0.0006
22	105	0.264	0.0658	0.0658	0.0752	0.0794	60	320	0.251	-0.0003	-0.0003	0.0003	-0.0003
23	107	0.264	0.0754	0.0754	0.0862	0.0910	61	506	0.258	0.0488	0.0488	0.0558	0.0588
24	108	0.262	0.0751	0.0751	0.0858	0.0906	62	507	0.257	0.0482	0.0482	0.0550	0.0581
25	110	0.261	0.0611	0.0611	0.0698	0.0736	63	508	0.256	0.0451	0.0451	0.0514	0.0543
26	111	0.260	0.0516	0.0516	0.0589	0.0622	64	509	0.255	0.0372	0.0372	0.0425	0.0448
27	112	0.259	0.0362	0.0362	0.0414	0.0437	65	510	0.256	0.0324	0.0324	0.0369	0.0390
28	113	0.258	0.0221	0.0221	0.0253	0.0267	66	511	0.256	0.0299	0.0299	0.0341	0.0360
29	114	0.256	0.0068	0.0068	0.0078	0.0082	67	512	0.255	0.0208	0.0208	0.0237	0.0250
30	115	0.255	0.0019	0.0019	0.0022	0.0023	68	513	0.254	0.0137	0.0137	0.0156	0.0165
31	203	0.260	0.0689	0.0689	0.0786	0.0830	69	514	0.253	0.0032	0.0032	0.0036	0.0038
32	205	0.261	0.0629	0.0629	0.0718	0.0758	70	515	0.252	0.0002	0.0002	0.0002	0.0002
33	207	0.261	0.0562	0.0562	0.0642	0.0678	71	601	0.253	-0.0000	-0.0000	0.0000	-0.0000
34	208	0.260	0.0540	0.0540	0.0617	0.0651	72	602	0.252	-0.0000	-0.0000	0.0000	-0.0000
35	210	0.259	0.0425	0.0425	0.0485	0.0512	73	603	0.252	0.0000	0.0000	0.0000	0.0000
36	211	0.258	0.0364	0.0364	0.0416	0.0439	74	604	0.251	-0.0000	-0.0000	0.0000	-0.0000
37	212	0.257	0.0259	0.0259	0.0295	0.0312	75	605	0.250	-0.0000	-0.0000	0.0000	-0.0000
38	213	0.281	-0.0000	-0.0000	-0.0000	-0.0000							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.1461E 06	9.5892E 05	0.305	10.17	1143.5	0.12104E 07	0.3048	1.000	RUN NO. 83
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.5892E 05	9.5892E 05	1.000	149.54	2058.4	520.50	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	307.8	554.0	0.565	0.515	12.485	11.001	1.8053E-04	1.9045E-04	-0.061
2	17	308.6	555.4	0.628	0.553	12.473	10.990	1.9398E-04	2.0465E-04	-0.001
3	18	309.9	557.9	0.657	0.579	12.453	10.972	2.0336E-04	2.1456E-04	0.013
4	19	310.4	558.8	0.681	0.600	12.445	10.966	2.1096E-04	2.2259E-04	0.037
5	20	310.8	559.4	0.707	0.623	12.440	10.962	2.1894E-04	2.3102E-04	0.056
6	21	311.1	560.0	0.749	0.660	12.435	10.957	2.3208E-04	2.4489E-04	0.076
7	22	311.6	560.9	0.771	0.679	12.428	10.950	2.3898E-04	2.5218E-04	0.093
8	23	311.7	561.0	0.775	0.683	12.427	10.950	2.4050E-04	2.5379E-04	0.090
9	24	312.3	562.2	0.826	0.728	12.417	10.941	2.5633E-04	2.7050E-04	0.101
10	25	311.6	560.8	0.854	0.752	12.428	10.951	2.6484E-04	2.7947E-04	0.104
11	41	304.9	548.7	0.129	0.114	12.528	11.039	3.9748E-05	4.1925E-05	0.578
12	42	305.7	550.2	0.167	0.147	12.516	11.028	5.1255E-05	5.4064E-05	0.175
13	43	307.9	554.3	0.156	0.138	12.482	10.998	4.8246E-05	5.0899E-05	0.272
14	44	308.7	555.7	0.190	0.167	12.470	10.988	5.8730E-05	6.1962E-05	0.288
15	45	308.6	555.5	0.180	0.159	12.472	10.990	5.5585E-05	5.8644E-05	0.346
16	46	308.7	555.7	0.182	0.160	12.470	10.988	5.6285E-05	5.9383E-05	0.374
17	47	309.4	556.8	0.198	0.174	12.461	10.980	6.1119E-05	6.4486E-05	0.372
18	48	309.3	556.7	0.186	0.164	12.462	10.981	5.7526E-05	6.0694E-05	0.309
19	49	310.1	558.1	0.260	0.229	12.450	10.970	8.0465E-05	8.4901E-05	0.092
20	50	309.2	556.6	0.216	0.190	12.463	10.981	6.6812E-05	7.0491E-05	0.122
21	103	317.3	571.1	0.795	0.700	12.344	10.876	2.4826E-04	2.6208E-04	0.097
22	105	318.6	573.5	0.811	0.714	12.324	10.859	2.5377E-04	2.6792E-04	0.110
23	107	317.7	571.9	0.931	0.820	12.337	10.871	2.9096E-04	3.0717E-04	0.112
24	108	316.2	569.2	0.928	0.818	12.359	10.890	2.8969E-04	3.0580E-04	-0.089
25	110	314.4	565.9	0.757	0.667	12.386	10.914	2.3553E-04	2.4859E-04	-0.214
26	111	313.7	564.6	0.640	0.564	12.397	10.923	1.9898E-04	2.1000E-04	-0.092
27	112	312.1	561.8	0.450	0.397	12.420	10.944	1.3971E-04	1.4743E-04	0.203
28	113	310.9	559.6	0.275	0.243	12.438	10.960	8.5342E-05	9.0053E-05	0.362
29	114	308.9	556.1	0.085	0.075	12.467	10.985	2.6354E-05	2.7805E-05	0.330
30	115	307.2	553.0	0.024	0.021	12.492	11.007	7.2729E-06	7.6723E-06	-0.109
31	203	313.8	564.8	0.853	0.752	12.395	10.922	2.6544E-04	2.8015E-04	0.098
32	205	314.8	566.6	0.778	0.686	12.381	10.909	2.4236E-04	2.5581E-04	0.100
33	207	314.2	565.5	0.697	0.614	12.389	10.917	2.1684E-04	2.2886E-04	0.053
34	208	313.2	563.7	0.670	0.590	12.405	10.930	2.0825E-04	2.1978E-04	-0.064
35	210	311.7	561.0	0.528	0.465	12.427	10.949	1.6384E-04	1.7289E-04	-0.176
36	211	311.0	559.9	0.453	0.399	12.436	10.958	1.4041E-04	1.4816E-04	-0.027
37	212	309.9	557.8	0.322	0.284	12.453	10.973	9.9702E-05	1.0520E-04	0.264
38	213	338.7	609.7	-0.000	-0.000	12.026	10.597	-1.0187E-07	-1.0772E-07	1.587
39	214	338.7	609.7	0.000	0.000	12.026	10.597	5.4237E-16	5.7347E-16	*******
40	215	306.1	551.0	0.002	0.002	12.509	11.022	5.6389E-07	5.9481E-07	-3.000
41	216	303.1	545.6	-0.020	-0.018	12.554	11.062	-5.1800E-06	-5.5176E-06	-0.133
42	217	305.7	550.3	-0.014	-0.013	12.515	11.028	-4.3796E-06	-4.6196E 06	0.412
43	218	302.8	545.0	-0.003	-0.003	12.559	11.066	-9.3716E-07	-9.8832E-07	-4.473
44	219	302.7	544.9	-0.005	-0.004	12.560	11.067	-1.4551E-06	-1.5346E-06	-1.531
45	220	302.5	544.5	-0.007	-0.006	12.563	11.070	-2.1209E-06	-2.2366E-06	-0.375
46	306	338.7	609.7	-0.000	-0.000	12.026	10.596	-4.9010E-08	-5.1821E-08	1.027
47	307	338.8	609.9	0.017	0.015	12.024	10.595	5.3978E-06	5.7074E-06	-0.782
48	308	310.8	559.4	0.621	0.547	12.440	10.961	1.9248E-04	2.0311E-04	-0.158
49	309	309.8	557.7	0.519	0.457	12.454	10.974	1.6054E-04	1.6939E-04	-0.245
50	310	309.2	556.5	0.470	0.415	12.463	10.982	1.4547E-04	1.5348E-04	-0.147
51	311	338.7	609.7	0.000	0.000	12.026	10.597	4.5931E-14	4.8565E-14	*******
52	312	306.3	551.3	0.219	0.193	12.507	11.020	6.7538E-05	7.1242E-05	0.406
53	313	305.0	548.9	0.123	0.108	12.526	11.037	3.7842E-05	3.9914E-05	0.639
54	314	305.3	549.5	0.025	0.022	12.522	11.033	7.8267E-06	8.2554E-06	1.096
55	315	304.6	548.3	0.005	0.005	12.531	11.042	1.6384E-06	1.7281E-06	3.554
56	316	303.9	547.0	0.002	0.002	12.542	11.052	6.9153E-07	7.2934E-07	6.433
57	317	303.2	545.7	0.001	0.001	12.553	11.061	3.7016E-07	3.9038E-07	8.578
58	318	302.8	545.1	-0.003	-0.003	12.558	11.065	-9.8626E-07	-1.0401E-06	-1.441
59	319	302.5	544.5	-0.006	-0.005	12.563	11.069	-1.8011E-06	-1.8994E-06	-0.956
60	320	302.5	544.5	-0.004	-0.003	12.563	11.069	-1.0855E-06	-1.1447E-06	-3.492
61	506	310.9	559.7	0.607	0.535	12.438	10.959	1.8825E-04	1.9864E-04	-0.003
62	507	310.2	558.4	0.600	0.529	12.448	10.968	1.8586E-04	1.9610E-04	-0.033
63	508	309.0	556.2	0.562	0.495	12.466	10.984	1.7366E-04	1.8322E-04	-0.152
64	509	307.5	553.5	0.465	0.410	12.489	11.004	1.4352E-04	1.5141E-04	-0.287
65	510	308.0	554.4	0.404	0.356	12.481	10.998	1.2473E-04	1.3159E-04	-0.254
66	511	307.9	554.3	0.373	0.329	12.482	10.999	1.1510E-04	1.2143E-04	-0.161
67	512	307.1	552.8	0.260	0.229	12.494	11.009	8.0177E-05	8.4580E-05	0.184
68	513	306.6	551.8	0.171	0.151	12.503	11.017	5.2749E-05	5.5643E-05	0.483
69	514	305.3	549.6	0.040	0.035	12.521	11.032	1.2231E-05	1.2901E-05	0.764
70	515	304.1	547.4	0.002	0.002	12.539	11.048	6.3542E-07	6.7017E-07	4.658
71	601	304.8	548.7	-0.000	-0.000	12.528	11.039	-0.0000E-39	-0.0000E-39	98.989
72	602	304.0	547.2	-0.000	-0.000	12.540	11.050	-0.0000E-39	-0.0000E-39	3.156
73	603	303.1	545.6	0.000	0.000	12.554	11.061	0.0000E-39	0.0000E-39	2.356
74	604	302.4	544.4	-0.000	-0.000	12.564	11.070	-0.0000E-39	-0.0000E-39	-0.164
75	605	301.5	542.7	-0.000	-0.000	12.578	11.083	-0.0000E-39	-0.0000E-39	-1.546

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6121E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.806	8.065	7.658
PT2/PT1	5.220E-02	5.393E-02	5.121E-02
TEMP(DEG R)	2088.7	2181.1	2249.5
TT2/TT1	1.0147	1.0596	1.0929

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 84 FRAME 26 TO 52 CONSTANT SET 571

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10 0.9860E 06	149.52	2024.48	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.517	2024.100	0.168	0.213	686.886	-0.267	17.6052
0.070	149.517	2024.228	0.168	0.219	689.779	-0.280	17.6092
0.140	149.517	2024.488	0.168	0.305	690.742	-0.280	17.6132
0.210	149.517	2025.011	0.168	0.858	700.333	-0.293	17.6132
0.280	149.517	2024.749	0.229	2.245	813.929	-0.267	17.6052
0.350	149.517	2023.967	0.959	3.771	1325.116	-0.267	17.5810
0.420	149.517	2024.094	2.905	5.064	1691.219	-0.306	17.6092
0.490	149.517	2024.225	4.969	6.501	1838.046	-0.293	17.6132
0.560	149.334	2025.006	6.163	7.529	1935.887	-0.306	17.6132
0.630	149.517	2024.617	6.996	7.946	2003.752	-0.280	17.6092
0.700	149.517	2023.964	7.655	7.913	2034.405	-0.280	17.5164
0.770	149.517	2023.702	8.039	7.485	2040.902	-0.293	34.3186
0.840	149.517	2023.964	8.105	7.048	2055.812	-0.306	34.9238
0.910	149.517	2024.482	8.079	6.912	2070.031	-0.293	34.9319
0.980	149.517	2024.352	8.026	6.987	2079.703	-0.280	34.9279
1.050	149.517	2023.570	8.015	7.126	2089.998	-0.293	34.9279
1.120	149.517	2023.570	8.020	7.224	2096.422	-0.293	34.9279
1.190	149.517	2023.829	8.018	7.321	2102.837	-0.293	34.9359
1.260	149.517	2024.350	8.007	7.385	2098.989	-0.293	34.9319
1.330	149.517	2024.224	7.989	7.418	2097.064	-0.293	34.9279
1.400	149.517	2022.784	7.986	7.454	2116.922	-0.293	34.9279
1.470	149.517	2023.052	8.013	7.482	2114.364	-0.293	34.9238
1.540	149.517	2023.439	8.010	7.510	2111.805	-0.306	34.9319
1.610	149.517	2023.961	7.986	7.515	2111.165	-0.306	34.9319
1.680	149.517	2023.832	7.994	7.543	2126.503	-0.293	34.9279
1.750	149.517	2023.180	7.959	7.549	2129.693	-0.293	34.9279
1.820	149.517	2023.050	8.023	7.565	2136.066	-0.293	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2349E 06	9.8601E 05	0.305	10.17	1124.7	0.11865E 07	0.3048	1.000	RUN NO. 84
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.8601E 05	9.8601E 05	1.000	149.52	2024.5	511.10	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.262	0.0464	0.0464	0.0531	0.0560	39	214	0.286	0.0000	0.0000	0.0000	0.0000
2	17	0.262	0.0488	0.0488	0.0558	0.0589	40	215	0.260	0.0039	0.0039	0.0045	0.0047
3	18	0.263	0.0516	0.0516	0.0589	0.0622	41	216	0.258	-0.0000	-0.0000	0.0000	-0.0000
4	19	0.264	0.0534	0.0534	0.0610	0.0644	42	217	0.260	0.0010	0.0010	0.0011	0.0012
5	20	0.264	0.0557	0.0557	0.0637	0.0673	43	218	0.258	-0.0004	-0.0004	0.0005	-0.0005
6	21	0.264	0.0600	0.0600	0.0685	0.0724	44	219	0.258	-0.0007	-0.0007	0.0008	-0.0009
7	22	0.265	0.0615	0.0615	0.0703	0.0743	45	220	0.257	-0.0011	-0.0011	0.0012	-0.0013
8	23	0.265	0.0632	0.0632	0.0723	0.0763	46	306	0.286	0.0000	0.0000	0.0000	0.0000
9	24	0.265	0.0673	0.0673	0.0770	0.0813	47	307	0.285	0.0054	0.0054	0.0062	0.0065
10	25	0.265	0.0666	0.0666	0.0761	0.0803	48	308	0.264	0.0521	0.0521	0.0596	0.0629
11	41	0.259	0.0099	0.0099	0.0114	0.0120	49	309	0.263	0.0456	0.0456	0.0521	0.0550
12	42	0.260	0.0216	0.0216	0.0247	0.0261	50	310	0.263	0.0426	0.0426	0.0486	0.0513
13	43	0.262	0.0180	0.0180	0.0206	0.0217	51	311	0.286	-0.0000	-0.0000	0.0000	-0.0000
14	44	0.262	0.0173	0.0173	0.0198	0.0209	52	312	0.260	0.0237	0.0237	0.0271	0.0286
15	45	0.263	0.0162	0.0162	0.0185	0.0195	53	313	0.259	0.0119	0.0119	0.0136	0.0144
16	46	0.263	0.0210	0.0210	0.0240	0.0254	54	314	0.260	0.0047	0.0047	0.0054	0.0057
17	47	0.263	0.0226	0.0226	0.0258	0.0273	55	315	0.259	0.0007	0.0007	0.0008	0.0008
18	48	0.263	0.0273	0.0273	0.0312	0.0329	56	316	0.258	0.0001	0.0001	0.0001	0.0001
19	49	0.264	0.0262	0.0262	0.0300	0.0316	57	317	0.256	-0.0002	-0.0002	0.0002	-0.0002
20	50	0.263	0.0153	0.0153	0.0175	0.0185	58	318	0.258	-0.0004	-0.0004	0.0004	-0.0005
21	103	0.269	0.0649	0.0649	0.0743	0.0785	59	319	0.257	-0.0004	-0.0004	0.0005	-0.0005
22	105	0.270	0.0652	0.0652	0.0746	0.0788	60	320	0.257	-0.0002	-0.0002	0.0002	-0.0002
23	107	0.270	0.0772	0.0772	0.0883	0.0933	61	506	0.264	0.0494	0.0494	0.0565	0.0597
24	108	0.269	0.0793	0.0793	0.0907	0.0958	62	507	0.264	0.0497	0.0497	0.0568	0.0600
25	110	0.267	0.0662	0.0662	0.0757	0.0799	63	508	0.263	0.0504	0.0504	0.0576	0.0608
26	111	0.267	0.0572	0.0572	0.0654	0.0690	64	509	0.261	0.0455	0.0455	0.0519	0.0548
27	112	0.266	0.0415	0.0415	0.0475	0.0501	65	510	0.262	0.0404	0.0404	0.0462	0.0487
28	113	0.264	0.0272	0.0272	0.0310	0.0328	66	511	0.262	0.0377	0.0377	0.0431	0.0455
29	114	0.263	0.0088	0.0088	0.0101	0.0106	67	512	0.261	0.0285	0.0285	0.0326	0.0344
30	115	0.261	0.0024	0.0024	0.0027	0.0028	68	513	0.261	0.0202	0.0202	0.0231	0.0243
31	203	0.267	0.0743	0.0743	0.0849	0.0897	69	514	0.260	0.0068	0.0068	0.0077	0.0082
32	205	0.267	0.0757	0.0757	0.0866	0.0914	70	515	0.259	0.0016	0.0016	0.0018	0.0019
33	207	0.267	0.0689	0.0689	0.0787	0.0832	71	601	0.260	-0.0000	-0.0000	0.0000	-0.0000
34	208	0.266	0.0645	0.0645	0.0737	0.0778	72	602	0.258	-0.0000	-0.0000	0.0000	-0.0000
35	210	0.265	0.0524	0.0524	0.0599	0.0633	73	603	0.000	*******	*******	*******	*******
36	211	0.265	0.0465	0.0465	0.0531	0.0561	74	604	0.257	-0.0000	-0.0000	0.0000	-0.0000
37	212	0.264	0.0370	0.0370	0.0423	0.0446	75	605	0.256	-0.0000	-0.0000	0.0000	-0.0000
38	213	0.286	-0.0001	-0.0001	-0.0001	-0.0001							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2349E 06	9.8601E 05	0.305	10.17	1124.7	0.11685E 07	0.3048	1.000	RUN NO. 84
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU-LBM)	RS(FT)	HAW/HT	
5.10	9.8601E 05	9.8601E 05	1.000	149.52	2024.5	511.10	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	309.5	557.2	0.565	0.497	12.157	10.712	1.7696E-04	1.8678E-04	-0.052
2	17	310.4	558.6	0.593	0.522	12.145	10.701	1.8602E-04	1.9636E-04	0.018
3	18	311.8	561.2	0.625	0.551	12.123	10.682	1.9660E-04	2.0755E-04	0.014
4	19	312.1	561.9	0.647	0.570	12.118	10.678	2.0348E-04	2.1482E-04	0.008
5	20	312.6	562.6	0.675	0.595	12.112	10.672	2.1245E-04	2.2429E-04	0.015
6	21	312.9	563.2	0.726	0.640	12.107	10.668	2.2856E-04	2.4131E-04	0.037
7	22	313.3	563.9	0.745	0.656	12.101	10.663	2.3455E-04	2.4764E-04	0.032
8	23	313.5	564.3	0.765	0.674	12.098	10.660	2.4107E-04	2.5452E-04	0.044
9	24	314.0	565.2	0.814	0.717	12.091	10.653	2.5666E-04	2.7100E-04	0.059
10	25	313.6	564.4	0.805	0.710	12.097	10.659	2.5376E-04	2.6793E-04	0.044
11	41	306.8	552.2	0.121	0.107	12.198	10.748	3.7901E-05	3.9997E-05	0.530
12	42	307.7	553.9	0.263	0.232	12.184	10.736	8.2361E-05	8.6922E-05	0.084
13	43	310.0	558.0	0.219	0.193	12.150	10.706	6.8614E-05	7.2425E-05	0.148
14	44	310.6	559.1	0.211	0.186	12.141	10.698	6.6096E-05	6.9770E-05	0.036
15	45	310.7	559.3	0.197	0.173	12.139	10.696	6.1723E-05	6.5155E-05	-0.246
16	46	310.9	559.6	0.255	0.225	12.137	10.694	8.0111E-05	8.4566E-05	-0.234
17	47	311.3	560.3	0.274	0.242	12.131	10.689	8.6187E-05	9.0983E-05	-0.164
18	48	311.5	560.6	0.331	0.292	12.128	10.686	1.0406E-04	1.0985E-04	-0.061
19	49	312.0	561.6	0.318	0.280	12.120	10.679	9.9901E-05	1.0547E-04	-0.019
20	50	311.6	560.9	0.186	0.164	12.126	10.685	5.8340E-05	6.1588E-05	0.197
21	103	318.6	573.5	0.781	0.688	12.022	10.593	2.4763E-04	2.6156E-04	0.081
22	105	320.0	575.9	0.783	0.690	12.002	10.576	2.4874E-04	2.6275E-04	0.085
23	107	319.3	574.7	0.927	0.817	12.012	10.584	2.9442E-04	3.1099E-04	0.087
24	108	318.1	572.5	0.954	0.841	12.030	10.600	3.0242E-04	3.1941E-04	-0.189
25	110	316.4	569.6	0.798	0.703	12.054	10.621	2.5239E-04	2.6654E-04	-0.463
26	111	315.8	568.4	0.690	0.608	12.064	10.630	2.1800E-04	2.3021E-04	-0.380
27	112	314.2	565.6	0.502	0.442	12.087	10.650	1.5830E-04	1.6715E-04	-0.101
28	113	312.9	563.3	0.329	0.290	12.106	10.667	1.0350E-04	1.0928E-04	0.091
29	114	311.0	559.8	0.107	0.094	12.135	10.693	3.3560E-05	3.5427E-05	-0.022
30	115	309.3	556.7	0.029	0.025	12.161	10.715	8.9679E-06	9.4656E-06	-0.726
31	203	315.4	567.8	0.896	0.790	12.069	10.635	2.8309E-04	2.9893E-04	0.076
32	205	316.4	569.5	0.913	0.804	12.055	10.622	2.8863E-04	3.0481E-04	0.078
33	207	315.9	568.7	0.831	0.732	12.062	10.628	2.6255E-04	2.7725E-04	0.020
34	208	315.1	567.2	0.778	0.686	12.074	10.639	2.4579E-04	2.5954E-04	-0.234
35	210	313.7	564.7	0.634	0.559	12.094	10.657	1.9981E-04	2.1097E-04	-0.579
36	211	313.1	563.6	0.563	0.496	12.103	10.665	1.7717E-04	1.8706E-04	-0.527
37	212	312.0	561.6	0.448	0.395	12.121	10.680	1.4096E-04	1.4881E-04	-0.276
38	213	338.7	609.7	-0.001	-0.001	11.725	10.332	-3.1026E-07	-3.2821E-07	1.612
39	214	338.7	609.7	0.000	0.000	11.725	10.331	5.0894E-16	5.3838E-16	*******
40	215	308.1	554.5	0.048	0.042	12.178	10.731	1.4950E-05	1.5779E-05	-1.622
41	216	305.1	549.1	-0.000	-0.000	12.223	10.770	-1.2417E-07	-1.3102E-07	180.152
42	217	307.7	553.9	0.012	0.010	12.184	10.736	3.7228E-06	3.9290E-06	-3.142
43	218	304.8	548.6	-0.005	-0.005	12.227	10.774	-1.6513E-06	-1.7424E-06	8.614
44	219	304.8	548.6	-0.009	-0.008	12.227	10.774	-2.8022E-06	-2.9568E-06	3.997
45	220	304.6	548.2	-0.013	-0.011	12.230	10.777	-4.0271E-06	-4.2491E-06	2.133
46	306	338.7	609.7	0.000	0.000	11.725	10.331	2.4876E-08	2.6315E-08	0.885
47	307	337.5	607.6	0.063	0.056	11.742	10.347	2.0573E-05	2.1761E-05	-0.955
48	308	312.7	562.8	0.631	0.556	12.110	10.671	1.9864E-04	2.0972E-04	-0.125
49	309	311.7	561.1	0.553	0.487	12.124	10.683	1.7391E-04	1.8359E-04	-0.251
50	310	311.1	559.9	0.516	0.455	12.134	10.692	1.6215E-04	1.7118E-04	-0.185
51	311	338.7	609.7	-0.000	-0.000	11.725	10.331	-1.2343E-13	-1.3057E-13	*******
52	312	308.1	554.6	0.289	0.254	12.178	10.731	9.0291E-05	9.5293E-05	0.264
53	313	306.9	552.4	0.145	0.128	12.196	10.746	4.5444E-05	4.7958E-05	0.123
54	314	307.2	552.9	0.057	0.051	12.192	10.743	1.7914E-05	1.8905E-05	0.166
55	315	306.6	551.9	0.008	0.007	12.200	10.750	2.6534E-06	2.8001E-06	-1.924
56	316	305.9	550.6	0.001	0.001	12.211	10.760	3.7536E-07	3.9609E-07	-13.540
57	317	305.2	549.4	-0.002	-0.002	12.221	10.768	-5.7539E-07	-6.0715E-07	7.133
58	318	304.9	548.8	-0.005	-0.004	12.226	10.773	-1.5011E-06	-1.5839E-06	3.007
59	319	304.6	548.3	-0.005	-0.005	12.230	10.776	-1.6754E-06	-1.7678E-06	1.065
60	320	304.6	548.3	-0.002	-0.002	12.230	10.776	-7.5053E-07	-7.9191E-07	-3.381
61	506	312.6	562.7	0.599	0.528	12.111	10.672	1.8845E-04	1.9895E-04	0.013
62	507	312.0	561.5	0.603	0.531	12.121	10.680	1.8948E-04	2.0003E-04	0.036
63	508	310.8	559.5	0.612	0.539	12.138	10.695	1.9215E-04	2.0284E-04	-0.015
64	509	309.4	556.9	0.553	0.487	12.159	10.714	1.7324E-04	1.8285E-04	-0.147
65	510	309.9	557.9	0.491	0.433	12.151	10.706	1.5402E-04	1.6257E-04	-0.171
66	511	309.9	557.8	0.458	0.404	12.151	10.707	1.4375E-04	1.5173E-04	-0.129
67	512	309.1	556.4	0.347	0.306	12.163	10.717	1.0870E-04	1.1473E-04	0.134
68	513	308.5	555.4	0.246	0.217	12.172	10.725	7.6913E-05	8.1177E-05	0.334
69	514	307.3	553.2	0.083	0.073	12.190	10.741	2.5808E-05	2.7236E-05	0.418
70	515	306.1	551.0	0.019	0.017	12.207	10.756	6.0740E-06	6.4096E-06	0.292
71	601	307.1	552.8	-0.000	-0.000	12.192	10.743	-0.0000E-39	-0.0000E-39	10.139
72	602	305.7	550.2	-0.000	-0.000	12.214	10.762	-0.0000E-39	-0.0000E-39	4.449
73	603	0.0	0.0	********	********	**********	**********	2.5325E 02	2.6310E 02	0.000
74	604	304.3	547.8	-0.000	-0.000	12.234	10.780	-0.0000E-39	-0.0000E-39	1.804
75	605	303.4	546.1	-0.000	-0.000	12.248	10.792	-0.0000E-39	-0.0000E-39	1.591

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6446E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.743	8.023	7.565
PT2/PT1	5.178E-02	5.366E-02	5.060E-02
TEMP(DEG R)	2075.2	2136.1	2190.6
TT2/TT1	1.0250	1.0551	1.0820

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 85 FRAME 26 TO 52 CONSTANT SET 571

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.4842E 06		75.77	2062.59	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.590	2063.113	0.094	0.124	683.018	-0.280	17.6052
0.070	75.590	2062.984	0.088	0.127	683.018	-0.267	17.6092
0.140	75.590	2062.853	0.088	0.182	683.018	-0.293	17.6132
0.210	75.590	2063.371	0.091	0.466	686.886	-0.293	17.6132
0.280	75.590	2063.240	0.152	1.130	822.714	-0.280	17.6092
0.350	75.773	2062.983	0.570	1.900	1292.696	-0.280	17.6052
0.420	75.590	2062.854	1.587	2.617	1645.156	-0.280	17.6092
0.490	75.590	2062.462	2.582	3.362	1794.553	-0.293	17.6132
0.560	75.590	2063.112	3.164	3.874	1887.878	-0.293	17.6132
0.630	75.590	2063.371	3.590	4.049	1959.715	-0.280	17.6132
0.700	75.773	2062.201	3.924	3.935	1992.616	-0.280	19.7720
0.770	75.407	2062.202	4.104	3.687	2020.733	-0.293	34.6979
0.840	75.773	2062.201	4.146	3.532	2034.405	-0.306	34.9238
0.910	75.773	2062.591	4.128	3.493	2052.574	-0.293	34.9319
0.980	75.773	2063.231	4.115	3.537	2071.322	-0.280	34.9279
1.050	75.773	2061.942	4.112	3.601	2086.140	-0.280	34.9279
1.120	75.773	2061.813	4.120	3.657	2105.401	-0.280	34.9238
1.190	75.773	2061.944	4.133	3.696	2105.401	-0.293	34.9359
1.260	75.590	2062.201	4.130	3.715	2111.805	-0.293	34.9319
1.330	75.773	2062.840	4.109	3.726	2105.401	-0.293	34.9319
1.400	75.956	2061.812	4.085	3.732	2122.673	-0.280	34.9238
1.470	75.590	2061.944	4.093	3.743	2133.950	-0.280	34.9279
1.540	75.773	2061.555	4.093	3.768	2135.429	-0.306	34.9359
1.610	75.773	2062.201	4.109	3.793	2141.159	-0.293	34.9319
1.680	75.773	2062.201	4.117	3.807	2150.060	-0.280	34.9319
1.750	75.956	2061.420	4.120	3.824	2154.505	-0.293	34.9238
1.820	75.773	2061.683	4.120	3.824	2162.115	-0.293	34.9238

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.5886E 06	4.8419E 05	0.305	5.15	1145.9	0.1213IE 07	0.3048	1.000	RUN NO. 85
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	4.8419E 05	4.8419E 05	1.000	75.77	2062.6	521.67	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	16	0.257	0.0485	0.0485	0.0553	0.0584	39	214	0.280	0.0000	0.0000	0.0000	0.0000
2	17	0.258	0.0520	0.0520	0.0593	0.0626	40	215	0.257	-0.0170	-0.0170	0.0194	-0.0205
3	18	0.259	0.0551	0.0551	0.0629	0.0664	41	216	0.255	-0.0005	-0.0005	0.0006	-0.0006
4	19	0.259	0.0582	0.0582	0.0664	0.0701	42	217	0.257	-0.0002	-0.0002	0.0002	-0.0002
5	20	0.259	0.0596	0.0596	0.0681	0.0719	43	218	0.255	0.0000	0.0000	0.0001	0.0001
6	21	0.260	0.0634	0.0634	0.0724	0.0764	44	219	0.255	-0.0000	-0.0000	0.0000	-0.0000
7	22	0.260	0.0648	0.0648	0.0740	0.0781	45	220	0.254	-0.0001	-0.0001	0.0001	-0.0001
8	23	0.260	0.0665	0.0665	0.0760	0.0802	46	306	0.280	0.0000	0.0000	0.0000	0.0000
9	24	0.260	0.0706	0.0706	0.0806	0.0851	47	307	0.280	0.0060	0.0060	0.0069	0.0073
10	25	0.260	0.0721	0.0721	0.0823	0.0868	48	308	0.259	0.0558	0.0558	0.0637	0.0673
11	41	0.255	0.0106	0.0106	0.0121	0.0128	49	309	0.259	0.0484	0.0484	0.0553	0.0583
12	42	0.256	0.0188	0.0188	0.0215	0.0227	50	310	0.258	0.0447	0.0447	0.0510	0.0539
13	43	0.258	0.0174	0.0174	0.0198	0.0209	51	311	0.280	0.0001	0.0001	0.0001	0.0001
14	44	0.258	0.0186	0.0186	0.0212	0.0224	52	312	0.257	0.0237	0.0237	0.0271	0.0286
15	45	0.258	0.0178	0.0178	0.0203	0.0215	53	313	0.256	0.0167	0.0167	0.0190	0.0201
16	46	0.258	0.0194	0.0194	0.0222	0.0234	54	314	0.256	0.0039	0.0039	0.0044	0.0047
17	47	0.259	0.0198	0.0198	0.0226	0.0238	55	315	0.256	0.0005	0.0005	0.0005	0.0006
18	48	0.259	0.0237	0.0237	0.0271	0.0286	56	316	0.255	0.0000	0.0000	0.0001	0.0001
19	49	0.259	0.0254	0.0254	0.0291	0.0307	57	317	0.255	-0.0002	-0.0002	0.0003	-0.0003
20	50	0.259	0.0193	0.0193	0.0220	0.0232	58	318	0.255	-0.0002	-0.0002	0.0002	-0.0002
21	103	0.263	0.0698	0.0698	0.0798	0.0843	59	319	0.254	0.0002	0.0002	0.0002	0.0002
22	105	0.264	0.0698	0.0698	0.0798	0.0843	60	320	0.254	-0.0003	-0.0003	0.0003	-0.0003
23	107	0.264	0.0800	0.0800	0.0915	0.0966	61	506	0.259	0.0528	0.0528	0.0602	0.0636
24	108	0.263	0.0812	0.0812	0.0928	0.0980	62	507	0.259	0.0519	0.0519	0.0592	0.0625
25	110	0.262	0.0685	0.0685	0.0782	0.0826	63	508	0.258	0.0497	0.0497	0.0567	0.0598
26	111	0.262	0.0585	0.0585	0.0668	0.0705	64	509	0.257	0.0436	0.0436	0.0497	0.0525
27	112	0.261	0.0425	0.0425	0.0486	0.0513	65	510	0.257	0.0387	0.0387	0.0442	0.0466
28	113	0.260	0.0269	0.0269	0.0307	0.0324	66	511	0.257	0.0363	0.0363	0.0415	0.0437
29	114	0.259	0.0084	0.0084	0.0096	0.0101	67	512	0.257	0.0277	0.0277	0.0317	0.0334
30	115	0.258	0.0019	0.0019	0.0022	0.0023	68	513	0.256	0.0183	0.0183	0.0209	0.0220
31	203	0.261	0.0747	0.0747	0.0853	0.0900	69	514	0.256	0.0051	0.0051	0.0058	0.0061
32	205	0.261	0.0745	0.0745	0.0852	0.0899	70	515	0.255	0.0002	0.0002	0.0002	0.0002
33	207	0.261	0.0652	0.0652	0.0745	0.0786	71	601	0.256	0.0000	0.0000	0.0000	0.0000
34	208	0.261	0.0609	0.0609	0.0696	0.0735	72	602	0.255	-0.0000	-0.0000	0.0000	-0.0000
35	210	0.260	0.0490	0.0490	0.0560	0.0591	73	603	0.000	*******	*******	*******	*******
36	211	0.260	0.0430	0.0430	0.0491	0.0518	74	604	0.254	-0.0000	-0.0000	0.0000	-0.0000
37	212	0.259	0.0320	0.0320	0.0365	0.0385	75	605	0.254	0.0000	0.0000	0.0000	0.0000
38	213	0.280	-0.0001	-0.0001	-0.0001	-0.0001							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	MAX HT	TEST NO.	182
5.10	1.5866E 06	4.8419E 05	0.305	5.15	1145.9	0.1213E 07	0.3048	1.000	RUN NO.	85
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	MAX/HT		
5.10	4.8419E 05	4.8419E 05	1.000	75.77	2064.6	521.67	1.0000	1.00		

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	16	310.3	558.5	0.431	0.380	8.887	7.831	2.6279E-04	2.7727E-04	0.042
2	17	311.1	560.0	0.461	0.406	8.878	7.823	2.8171E-04	2.9725E-04	0.104
3	18	312.3	562.1	0.488	0.430	8.866	7.812	2.9875E-04	3.1526E-04	0.105
4	19	312.7	562.9	0.516	0.454	8.861	7.808	3.1562E-04	3.3306E-04	0.130
5	20	313.1	563.6	0.528	0.465	8.857	7.804	3.2346E-04	3.4135E-04	0.129
6	21	313.5	564.2	0.561	0.495	8.853	7.801	3.4395E-04	3.6298E-04	0.141
7	22	313.7	564.7	0.574	0.505	8.851	7.798	3.5148E-04	3.7094E-04	0.135
8	23	313.9	565.0	0.589	0.519	8.849	7.797	3.6090E-04	3.8089E-04	0.141
9	24	314.3	565.8	0.624	0.550	8.844	7.793	3.8290E-04	4.0411E-04	0.138
10	25	313.6	564.5	0.638	0.562	8.852	7.800	3.9085E-04	4.1248E-04	0.133
11	41	308.6	555.5	0.094	0.083	8.905	7.846	5.7526E-05	6.0688E-05	0.609
12	42	309.4	556.8	0.168	0.148	8.897	7.839	1.0219E-04	1.0781E-04	0.313
13	43	311.2	560.1	0.154	0.136	8.878	7.822	9.4205E-05	9.9401E-05	0.374
14	44	311.7	561.1	0.165	0.145	8.872	7.817	1.0091E-04	1.0648E-04	0.353
15	45	311.8	561.3	0.158	0.139	8.870	7.816	9.6582E-05	1.0191E-04	0.390
16	46	312.1	561.7	0.172	0.152	8.868	7.814	1.0527E-04	1.1109E-04	0.304
17	47	312.4	562.4	0.175	0.155	8.864	7.811	1.0730E-04	1.1323E-04	0.198
18	48	312.6	562.8	0.210	0.185	8.863	7.809	1.2853E-04	1.3563E-04	0.107
19	49	313.0	563.5	0.225	0.199	8.858	7.805	1.3801E-04	1.4564E-04	0.125
20	50	312.3	562.2	0.171	0.150	8.865	7.812	1.0446E-04	1.1024E-04	0.288
21	103	318.1	572.6	0.615	0.542	8.804	7.758	3.7894E-04	4.0004E-04	0.156
22	105	319.3	574.8	0.614	0.541	8.791	7.746	3.7897E-04	4.0011E-04	0.158
23	107	319.0	574.1	0.704	0.620	8.795	7.750	4.3431E-04	4.5852E-04	0.154
24	108	318.0	572.4	0.715	0.630	8.805	7.759	4.4081E-04	4.6535E-04	-0.050
25	110	316.9	570.5	0.604	0.532	8.817	7.769	3.7147E-04	3.9212E-04	-0.207
26	111	316.4	569.6	0.516	0.455	8.822	7.773	3.1734E-04	3.3497E-04	-0.128
27	112	315.3	567.6	0.376	0.331	8.834	7.784	2.3062E-04	2.4341E-04	0.146
28	113	314.4	566.0	0.238	0.209	8.843	7.792	1.4568E-04	1.5375E-04	0.312
29	114	313.0	563.4	0.074	0.065	8.858	7.805	4.5416E-05	4.7928E-05	0.308
30	115	311.7	561.0	0.017	0.015	8.872	7.818	1.0497E-05	1.1076E-05	-0.128
31	203	315.0	566.9	0.660	0.582	8.838	7.787	4.0516E-04	4.2762E-04	0.135
32	205	315.8	568.4	0.658	0.580	8.829	7.780	4.0439E-04	4.2683E-04	0.146
33	207	315.5	567.9	0.576	0.507	8.832	7.782	3.5366E-04	3.7328E-04	0.092
34	208	314.9	566.8	0.539	0.475	8.838	7.788	3.3053E-04	3.4885E-04	-0.034
35	210	314.0	565.2	0.434	0.382	8.848	7.796	2.6587E-04	2.8059E-04	-0.186
36	211	313.6	564.5	0.381	0.335	8.852	7.800	2.3320E-04	2.4611E-04	-0.086
37	212	312.8	563.0	0.283	0.250	8.861	7.807	1.7345E-04	1.8304E-04	0.141
38	213	338.7	609.7	-0.001	-0.001	8.587	7.566	-4.0179E-07	-4.2480E-07	0.862
39	214	338.7	609.7	0.000	0.000	8.587	7.566	8.8909E-16	9.4002E-16	*******
40	215	310.9	559.7	-0.151	-0.133	8.880	7.824	-9.2100E-05	-9.7179E-05	0.878
41	216	308.0	554.5	-0.005	-0.004	8.911	7.852	-2.7520E-06	-2.9032E-06	1.851
42	217	310.4	558.7	-0.002	-0.002	8.886	7.830	-1.1112E-06	-1.1724E-06	2.383
43	218	307.5	553.5	0.000	0.000	8.916	7.856	2.4351E-07	2.5687E-07	-6.238
44	219	307.5	553.4	-0.000	-0.000	8.917	7.857	-1.4548E-07	-1.5347E-07	-4.851
45	220	307.4	553.3	-0.001	-0.001	8.918	7.858	-5.8358E-07	-6.1561E-07	-0.772
46	306	338.7	609.7	0.000	0.000	8.587	7.566	9.6557E-08	1.0209E-07	2.225
47	307	338.3	608.9	0.052	0.046	8.592	7.571	3.2811E-05	3.4690E-05	0.222
48	308	313.1	563.5	0.494	0.436	8.858	7.805	3.0270E-04	3.1944E-04	-0.025
49	309	312.4	562.4	0.429	0.378	8.864	7.810	2.6246E-04	2.7696E-04	-0.123
50	310	312.2	561.9	0.396	0.349	8.867	7.813	2.4246E-04	2.5586E-04	-0.069
51	311	338.7	609.7	0.001	0.001	8.587	7.566	4.0140E-07	4.2440E-07	1.432
52	312	310.4	558.7	0.211	0.186	8.886	7.829	1.2875E-04	1.3585E-04	0.360
53	313	309.2	556.5	0.148	0.131	8.899	7.841	9.0306E-05	9.5274E-05	0.603
54	314	309.5	557.0	0.034	0.030	8.896	7.838	2.1015E-05	2.2171E-05	0.679
55	315	308.9	556.0	0.004	0.004	8.901	7.843	2.6075E-06	2.7509E-06	1.122
56	316	308.2	554.8	0.000	0.000	8.909	7.850	2.4341E-07	2.5678E-07	8.459
57	317	307.7	553.9	-0.002	-0.002	8.914	7.854	-1.3147E-06	-1.3869E-06	-0.143
58	318	307.4	553.4	-0.001	-0.001	8.917	7.857	-8.7694E-07	-9.2507E-07	0.346
59	319	307.2	552.9	0.002	0.002	8.920	7.860	1.0713E-06	1.1301E-06	2.472
60	320	307.0	552.6	-0.002	-0.002	8.921	7.861	-1.3645E-06	-1.4393E-06	0.459
61	506	312.6	562.7	0.468	0.412	8.862	7.809	2.8616E-04	3.0198E-04	0.069
62	507	312.3	562.1	0.460	0.405	8.866	7.812	2.8119E-04	2.9673E-04	0.074
63	508	311.7	561.0	0.441	0.388	8.872	7.818	2.6928E-04	2.8414E-04	-0.013
64	509	310.7	559.2	0.387	0.341	8.883	7.827	2.3635E-04	2.4937E-04	-0.118
65	510	310.6	559.1	0.344	0.303	8.883	7.827	2.1000E-04	2.2158E-04	-0.099
66	511	310.6	559.1	0.323	0.284	8.883	7.827	1.9697E-04	2.0785E-04	-0.035
67	512	310.2	558.3	0.247	0.217	8.888	7.832	1.5045E-04	1.5873E-04	0.264
68	513	309.8	557.6	0.163	0.143	8.892	7.835	9.9291E-05	1.0476E-04	0.443
69	514	309.0	556.2	0.045	0.040	8.901	7.843	2.7385E-05	2.8891E-05	0.740
70	515	308.2	554.7	0.001	0.001	8.910	7.850	8.2028E-07	8.6534E-07	-1.097
71	601	308.8	555.9	0.000	0.000	8.903	7.844	0.0000E-39	0.0000E-39	-12.818
72	602	308.0	554.4	-0.000	-0.000	8.911	7.852	-0.0000E-39	-0.0000E-39	7.445
73	603	0.0	0.0	********	********	**********	**********	4.9654E 02	5.1586E 02	0.000
74	604	307.1	552.8	-0.003	-0.000	8.921	7.860	-0.0000E-39	-0.0000E-39	1.621
75	605	306.5	551.7	0.000	0.000	8.927	7.866	0.0000E-39	0.0000E-39	0.898

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3215E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.893	4.120	3.824
PT2/PT1	5.137E-02	5.437E-02	5.046E-02
TEMP(DEG R)	2060.3	2162.1	2213.2
TT2/TT1	0.9989	1.0483	1.0730

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 86 FRAME 25 TO 52 CONSTANT SET 551

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.5081E 06	75.42	1999.05	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.237	1997.354	0.104	0.149	567.425	-0.280	17.6092
0.070	75.420	1997.875	0.104	0.154	667.425	-0.280	17.6132
0.140	75.237	1998.135	0.101	0.213	667.425	-0.280	17.6132
0.210	75.420	1998.658	0.104	0.552	576.220	-0.267	17.6132
0.280	75.420	1997.743	0.175	1.299	806.865	-0.267	17.6052
0.350	75.237	1997.876	0.631	2.078	1277.901	-0.267	17.5931
0.420	75.237	1997.874	1.660	2.717	1625.508	-0.293	17.6132
0.490	75.237	1998.397	2.634	3.340	1786.358	-0.280	17.6132
0.560	75.237	1998.789	3.184	3.740	1871.770	-0.280	17.6132
0.630	75.237	1998.135	3.566	3.885	1918.604	-0.280	17.6052
0.700	75.237	1998.136	3.833	3.759	1953.108	-0.280	15.4948
0.770	75.054	1997.742	3.989	3.495	1968.750	-0.293	21.3820
0.840	75.237	1998.397	4.018	3.298	1984.740	-0.306	34.9238
0.910	75.420	1999.050	4.016	3.237	2004.406	-0.280	34.9279
0.980	75.237	1998.134	4.000	3.270	2014.861	-0.280	34.9238
1.050	75.237	1997.873	3.986	3.323	2027.899	-0.280	34.9279
1.120	75.237	1998.002	3.978	3.356	2027.899	-0.293	34.9359
1.190	75.237	1998.917	3.978	3.384	2040.902	-0.293	34.9359
1.260	75.237	1999.048	3.981	3.409	2049.983	-0.280	34.9319
1.330	75.420	1998.394	3.978	3.423	2051.279	-0.267	34.9238
1.400	75.237	1998.133	3.976	3.440	2064.865	-0.280	34.9279
1.470	75.054	1997.873	3.981	3.465	2060.803	-0.293	34.9319
1.540	75.237	1998.657	3.981	3.490	2077.770	-0.280	34.9319
1.610	75.237	1999.575	3.986	3.499	2078.414	-0.280	34.9319
1.680	75.237	1998.393	3.986	3.506	2084.853	-0.280	34.9238
1.750	75.237	1998.002	3.973	3.515	2085.496	-0.280	34.9279
1.820	75.054	1998.393	3.965	3.518	2091.926	-0.306	34.9279

340

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6669E 06	5.0808E 05	0.305	5.13	1110.6	0.11722E 07	0.3048	1.000	RUN NO. 85
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.0808E 05	5.0808E 05	1.000	75.42	1999.1	504.07	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.264	0.0864	0.0864	0.0987	0.1043	39	214	0.290	0.0000	0.0000	0.0000	0.0000
2	7	0.264	0.0862	0.0862	0.0985	0.1040	40	215	0.265	0.0105	0.0105	0.0120	0.0127
3	8	0.264	0.0850	0.0850	0.0972	0.1026	41	216	0.263	0.0010	0.0010	0.0012	0.0013
4	9	0.264	0.0861	0.0861	0.0984	0.1039	42	217	0.265	0.0001	0.0001	0.0001	0.0001
5	10	0.264	0.0884	0.0884	0.1010	0.1066	43	218	0.263	0.0000	0.0000	0.0001	0.0001
6	11	0.264	0.0884	0.0884	0.1010	0.1067	44	219	0.263	0.0003	0.0003	0.0003	0.0004
7	12	0.264	0.0921	0.0921	0.1052	0.1111	45	220	0.262	-0.0003	-0.0003	-0.0004	-0.0004
8	13	0.265	0.0965	0.0965	0.1103	0.1164	46	306	0.290	0.0001	0.0001	0.0001	0.0001
9	14	0.265	0.1035	0.1035	0.1183	0.1250	47	307	0.267	0.0646	0.0646	0.0739	0.0781
10	15	0.265	0.1026	0.1025	0.1173	0.1239	48	308	0.267	0.0699	0.0699	0.0799	0.0844
11	16	0.265	0.1023	0.1023	0.1169	0.1234	49	309	0.266	0.0655	0.0655	0.0749	0.0790
12	17	0.265	0.0898	0.0898	0.1027	0.1084	50	310	0.266	0.0621	0.0621	0.0710	0.0750
13	18	0.266	0.0823	0.0823	0.0941	0.0994	51	311	0.290	-0.0001	-0.0001	-0.0001	-0.0001
14	19	0.267	0.0770	0.0770	0.0880	0.0929	52	312	0.265	0.0407	0.0407	0.0465	0.0491
15	20	0.267	0.0775	0.0775	0.0886	0.0935	53	313	0.264	0.0302	0.0302	0.0345	0.0364
16	21	0.267	0.0831	0.0831	0.0951	0.1004	54	314	0.264	0.0144	0.0144	0.0164	0.0173
17	22	0.267	0.0849	0.0849	0.0971	0.1025	55	315	0.264	0.0066	0.0066	0.0075	0.0079
18	23	0.267	0.0869	0.0869	0.0994	0.1050	56	316	0.263	0.0026	0.0026	0.0030	0.0032
19	24	0.268	0.0892	0.0892	0.1020	0.1077	57	317	0.263	0.0005	0.0005	0.0006	0.0006
20	25	0.267	0.0891	0.0891	0.1019	0.1076	58	318	0.263	0.0004	0.0004	0.0004	0.0004
21	133	0.270	0.0844	0.0844	0.0966	0.1020	59	319	0.252	0.0001	0.0001	0.0001	0.0001
22	135	0.271	0.0833	0.0833	0.0953	0.1007	60	320	0.262	0.0002	0.0002	0.0003	0.0003
23	137	0.271	0.0815	0.0815	0.0933	0.0985	61	506	0.267	0.0540	0.0540	0.0617	0.0651
24	108	0.270	0.0733	0.0733	0.0839	0.0886	62	507	0.266	0.0616	0.0616	0.0705	0.0744
25	110	0.269	0.0562	0.0562	0.0643	0.0679	63	508	0.265	0.0712	0.0712	0.0813	0.0859
26	111	0.269	0.0467	0.0467	0.0534	0.0564	64	509	0.264	0.0692	0.0692	0.0791	0.0835
27	112	0.268	0.0315	0.0315	0.0360	0.0380	65	510	0.265	0.0628	0.0628	0.0718	0.0758
28	113	0.267	0.0184	0.0184	0.0211	0.0223	66	511	0.265	0.0608	0.0608	0.0695	0.0734
29	114	0.266	0.0055	0.0055	0.0063	0.0066	67	512	0.265	0.0505	0.0505	0.0578	0.0610
30	115	0.265	0.0015	0.0015	0.0018	0.0019	68	513	0.264	0.0393	0.0393	0.0449	0.0474
31	233	0.268	0.0764	0.0764	0.0874	0.0923	69	514	0.264	0.0201	0.0201	0.0229	0.0242
32	205	0.269	0.0759	0.0759	0.0868	0.0917	70	515	0.263	0.0088	0.0088	0.0100	0.0106
33	207	0.269	0.0754	0.0754	0.0863	0.0911	71	601	0.264	-0.0000	-0.0000	-0.0000	-0.0000
34	208	0.268	0.0743	0.0743	0.0850	0.0898	72	602	0.263	-0.0000	-0.0000	-0.0000	-0.0000
35	210	0.267	0.0624	0.0624	0.0714	0.0754	73	603	0.290	0.0000	0.0000	0.0000	0.0000
36	211	0.267	0.0554	0.0554	0.0633	0.0669	74	604	0.263	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.267	0.0422	0.0422	0.0483	0.0510	75	605	0.252	-0.0000	-0.0000	-0.0000	-0.0000
38	213	0.290	0.0000	0.0000	0.0000	0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	1.6669E 06	5.080BE 05	5.13	1110.6	0.11722E 07	0.3048	1.000	RUN NO.	85
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	5.0808E 05	5.080BE 05	1.000	75.42	1999.1	504.07	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	308.5	555.2	0.733	0.646	8.485	7.477	4.5949E-04	4.8512E-04	0.200
2	7	308.4	555.1	0.731	0.644	8.486	7.477	4.5620E-04	4.8375E-04	0.201
3	8	308.5	555.3	0.722	0.636	8.485	7.476	4.5225E-04	4.7747E-04	0.200
4	9	308.4	555.2	0.730	0.644	8.486	7.477	4.5774E-04	4.8326E-04	0.206
5	10	308.5	555.3	0.750	0.661	8.485	7.476	4.6993E-04	4.9614E-04	0.211
6	11	308.5	555.4	0.753	0.661	8.484	7.476	4.7012E-04	4.9534E-04	0.202
7	12	308.6	555.6	0.781	0.688	8.483	7.475	4.8973E-04	5.1704E-04	0.199
8	13	308.8	555.8	0.818	0.721	8.482	7.473	5.1317E-04	5.4180E-04	0.216
9	14	309.0	556.2	0.878	0.774	8.480	7.472	5.5066E-04	5.8139E-04	0.205
10	15	309.0	556.2	0.870	0.767	8.480	7.472	5.4582E-04	5.7628E-04	0.209
11	16	309.1	556.4	0.867	0.764	8.478	7.470	5.4404E-04	5.7440E-04	0.202
12	17	309.8	557.6	0.761	0.671	8.471	7.464	4.7786E-04	5.0456E-04	0.229
13	18	310.9	559.6	0.696	0.614	8.460	7.454	4.3787E-04	4.6237E-04	0.197
14	19	311.4	560.5	0.651	0.573	8.455	7.450	4.0936E-04	4.3228E-04	0.190
15	20	311.5	560.8	0.655	0.577	8.453	7.448	4.1204E-04	4.3512E-04	0.189
16	21	311.7	561.1	0.703	0.619	8.451	7.446	4.4225E-04	4.6702E-04	0.207
17	22	311.9	561.4	0.717	0.632	8.449	7.445	4.5160E-04	4.7691E-04	0.214
18	23	312.1	561.7	0.734	0.647	8.447	7.443	4.6252E-04	4.8844E-04	0.230
19	24	312.6	562.6	0.753	0.663	8.442	7.439	4.7431E-04	5.0091E-04	0.243
20	25	312.0	561.6	0.753	0.663	8.448	7.444	4.7405E-04	5.0061E-04	0.243
21	103	315.2	567.3	0.710	0.626	8.415	7.414	4.4906E-04	4.7434E-04	0.240
22	105	316.1	569.0	0.700	0.617	8.405	7.406	4.4328E-04	4.6826E-04	0.235
23	107	315.7	568.3	0.685	0.604	8.409	7.409	4.3376E-04	4.5820E-04	0.222
24	108	315.0	566.9	0.617	0.544	8.417	7.416	3.9024E-04	4.1220E-04	0.123
25	110	314.0	565.1	0.473	0.417	8.427	7.426	2.9886E-04	3.1565E-04	0.055
26	111	313.6	564.5	0.394	0.347	8.431	7.429	2.4834E-04	2.6229E-04	0.110
27	112	312.7	562.8	0.266	0.234	8.441	7.437	1.6744E-04	1.7684E-04	0.268
28	113	311.9	561.5	0.156	0.137	8.449	7.444	9.8047E-05	1.0354E-04	0.337
29	114	310.8	559.5	0.047	0.041	8.460	7.455	2.9277E-05	3.0915E-05	0.265
30	115	309.8	557.6	0.013	0.012	8.471	7.464	8.2085E-06	8.6671E-06	-0.061
31	203	313.0	563.5	0.644	0.568	8.437	7.434	4.0632E-04	4.2913E-04	0.209
32	205	313.7	564.6	0.640	0.564	8.431	7.428	4.0368E-04	4.2636E-04	0.213
33	207	313.5	564.3	0.636	0.560	8.432	7.430	4.0132E-04	4.2366E-04	0.224
34	208	313.0	563.3	0.627	0.552	8.438	7.435	3.9530E-04	4.1748E-04	0.159
35	210	312.1	561.8	0.527	0.465	8.447	7.443	3.3207E-04	3.5068E-04	0.013
36	211	311.8	561.2	0.468	0.412	8.451	7.446	2.9451E-04	3.1101E-04	0.036
37	212	311.0	559.9	0.357	0.315	8.458	7.453	2.2458E-04	2.3715E-04	0.137
38	213	338.7	609.7	0.000	0.000	8.168	7.197	4.6110E-14	4.8795E-14	*******
39	214	338.7	609.7	0.000	0.000	8.168	7.197	1.5453E-15	1.6353E-15	*******
40	215	309.0	556.1	0.089	0.078	8.480	7.472	5.5795E-05	5.8908E-05	1.058
41	216	307.0	552.6	0.009	0.008	8.501	7.490	5.5628E-06	5.8723E-06	0.224
42	217	309.4	557.0	0.001	0.001	8.475	7.468	4.4757E-07	4.7256E-07	0.791
43	218	306.6	551.8	0.000	0.000	8.505	7.494	2.5006E-07	2.6396E-07	10.054
44	219	306.5	551.6	0.003	0.002	8.506	7.495	1.0049E-06	1.0941E-06	3.168
45	220	306.4	551.4	-0.003	-0.003	8.507	7.496	-1.8546E-06	-1.9578E-06	-0.531
46	305	338.7	609.7	0.001	0.001	8.167	7.197	6.4805E-07	6.8579E-07	1.355
47	307	311.8	561.3	0.546	0.481	8.450	7.445	3.4390E-04	3.6317E-04	0.194
48	308	311.4	560.4	0.591	0.521	8.455	7.450	3.7171E-04	3.9252E-04	0.147
49	309	310.9	559.6	0.554	0.488	8.460	7.454	3.4825E-04	3.6774E-04	0.079
50	310	310.6	559.0	0.526	0.463	8.463	7.457	3.3037E-04	3.4885E-04	0.107
51	311	338.7	609.7	-0.001	-0.001	8.168	7.197	-5.1797E-07	-5.4813E-07	0.982
52	312	308.9	556.1	0.345	0.304	8.480	7.472	2.1630E-04	2.2837E-04	0.310
53	313	308.3	555.0	0.256	0.226	8.487	7.478	1.6041E-04	1.6935E-04	0.428
54	314	308.1	554.6	0.122	0.107	8.489	7.480	7.6376E-05	8.0632E-05	0.355
55	315	307.6	553.6	0.056	0.049	8.495	7.485	3.4834E-05	3.6774E-05	0.437
56	316	307.1	552.8	0.022	0.020	8.499	7.489	1.3945E-05	1.4721E-05	0.563
57	317	306.7	552.0	0.005	0.004	8.504	7.493	2.8576E-06	3.0166E-06	0.457
58	318	306.5	551.7	0.003	0.003	8.506	7.495	1.9548E-06	2.0635E-06	1.906
59	319	306.3	551.4	0.001	0.001	8.508	7.496	6.9203E-07	6.3547E-07	5.739
60	320	306.3	551.4	0.002	0.002	8.508	7.496	1.4536E-06	1.5343E-06	8.635
61	506	311.1	560.0	0.456	0.402	8.458	7.452	2.8700E-04	3.0306E-04	0.133
62	507	310.7	559.2	0.522	0.460	8.462	7.456	3.2783E-04	3.4617E-04	0.169
63	508	309.8	557.7	0.603	0.531	8.471	7.464	3.7849E-04	3.9964E-04	0.184
64	509	308.7	555.6	0.587	0.517	8.483	7.475	3.6765E-04	3.8837E-04	0.135
65	510	309.2	556.6	0.533	0.469	8.477	7.469	3.3412E-04	3.5278E-04	0.139
66	511	309.2	556.6	0.516	0.454	8.477	7.469	3.2355E-04	3.4161E-04	0.170
67	512	308.9	556.0	0.479	0.378	8.481	7.473	2.6862E-04	2.8382E-04	0.319
68	513	308.6	555.5	0.333	0.293	8.484	7.475	2.0878E-04	2.2043E-04	0.405
69	514	307.9	554.2	0.173	0.152	8.491	7.482	1.0870E-04	1.1476E-04	0.454
70	515	307.1	552.8	0.075	0.066	8.499	7.489	4.6701E-05	4.9300E-05	0.454
71	601	307.7	553.9	-0.000	-0.000	8.493	7.484	-0.0000E-39	-0.0000E-39	127.290
72	602	307.0	552.7	-0.000	-0.000	8.500	7.490	-0.0000E-39	-0.0000E-39	17.084
73	603	308.7	555.7	0.000	0.000	8.488	7.479	0.0000E-39	0.0000E-39	*******
74	604	306.4	551.6	-0.000	-0.000	8.507	7.495	-0.0000E-39	-0.0000E-39	1.834
75	605	305.9	550.6	-0.000	-0.000	8.512	7.500	-0.0000E-39	-0.0000E-39	0.650

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3467E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

RUN 86

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.673	3.965	3.518
PT2/PT1	4.870E-02	5.258E-02	4.664E-02
TEMP(DEG R)	2019.4	2091.9	2133.5
TT2/TT1	1.0102	1.0465	1.0522

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 87 FRAME 26 TO 52 CONSTANT SET 551

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1	5.10	0.9980E 06	149.49	2009.81	1.0000

T(SEC)	PT(PSI)	TT(DES R)	P1	P2	T1	STING ANG	IN POS
0.000	149.490	2008.643	0.178	0.227	695.546	-0.286	17.6074
0.070	149.307	2009.159	0.175	0.244	695.546	-0.286	17.6074
0.140	149.307	2008.511	0.173	0.377	696.505	-0.286	17.6115
0.210	149.490	2009.945	0.183	1.117	711.748	-0.286	17.6155
0.280	149.307	2008.897	0.315	2.712	924.704	-0.273	17.6074
0.350	149.307	2008.380	1.356	4.188	1469.048	-0.286	17.5832
0.420	149.307	2009.029	3.561	5.562	1808.184	-0.299	17.6074
0.490	149.490	2008.896	5.523	6.854	1929.247	-0.299	17.6115
0.560	149.307	2009.681	6.577	7.607	1981.455	-0.299	17.6115
0.630	149.490	2008.893	7.303	7.796	2024.643	-0.286	17.6074
0.700	149.490	2008.248	7.755	7.544	2047.390	-0.286	31.4706
0.770	149.307	2009.157	7.914	7.090	2070.677	-0.299	34.9122
0.840	149.490	2008.896	7.888	6.815	2078.414	-0.312	34.9203
0.910	149.490	2009.808	7.853	6.757	2086.140	-0.299	34.9284
0.980	149.490	2009.156	7.800	6.815	2092.568	-0.286	34.9203
1.050	149.490	2008.370	7.769	6.935	2088.069	-0.286	34.9203
1.120	149.490	2008.631	7.755	7.052	2092.568	-0.299	34.9203
1.190	149.490	2008.893	7.774	7.132	2110.525	-0.299	34.9284
1.260	149.490	2009.674	7.800	7.191	2116.922	-0.299	34.9284
1.330	149.490	2009.416	7.806	7.204	2118.201	-0.286	34.9203
1.400	149.490	2008.499	7.800	7.232	2127.779	-0.286	34.9203
1.470	149.307	2008.497	7.782	7.274	2126.503	-0.312	34.9203
1.540	149.490	2008.888	7.790	7.302	2123.950	-0.299	34.9284
1.610	149.490	2009.671	7.795	7.324	2127.779	-0.299	34.9284
1.680	149.490	2009.542	7.792	7.321	2134.155	-0.299	34.9243
1.750	149.490	2008.365	7.782	7.324	2124.589	-0.286	34.9203
1.820	149.307	2008.625	7.792	7.349	2130.066	-0.312	34.9203

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2743E 06	9.9800E 05	0.305	10.17	1116.6	0.1179IE C7	0.3048	1.000	RUN NO. 87
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9800E 05	9.9800E 05	1.000	149.49	2009.8	507.04	1.0000	1.000	-

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.264	0.2783	0.2783	0.3181	0.3359	39	214	0.289	-0.0000	-0.0000	-0.0000	-0.0000
2	7	0.264	0.2860	0.2860	0.3269	0.3451	40	215	0.265	0.0113	0.0113	0.0130	0.0137
3	8	0.264	0.2808	0.2808	0.3209	0.3388	41	216	0.262	0.0025	0.0025	0.0029	0.0030
4	9	0.264	0.2827	0.2827	0.3231	0.3411	42	217	0.264	0.0008	0.0008	0.0009	0.0010
5	10	0.265	0.2839	0.2839	0.3245	0.3426	43	218	0.251	-0.0000	-0.0000	-0.0000	-0.0000
6	11	0.265	0.2783	0.2783	0.3181	0.3358	44	219	0.261	-0.0006	-0.0006	-0.0007	-0.0007
7	12	0.265	0.2750	0.2750	0.3143	0.3319	45	220	0.261	-0.0012	-0.0012	-0.0013	-0.0014
8	13	0.265	0.2637	0.2637	0.3014	0.3182	46	306	0.289	0.0000	0.0000	0.0000	0.0000
9	14	0.265	0.2496	0.2496	0.2854	0.3013	47	307	0.259	0.0652	0.0652	0.0745	0.0787
10	15	0.265	0.2148	0.2148	0.2456	0.2593	48	308	0.268	0.0773	0.0773	0.0884	0.0934
11	16	0.265	0.1953	0.1953	0.2233	0.2358	49	309	0.267	0.0770	0.0770	0.0880	0.0930
12	17	0.266	0.2138	0.2138	0.2444	0.2581	50	310	0.267	0.0754	0.0754	0.0862	0.0910
13	18	0.268	0.1023	0.1023	0.1170	0.1236	51	311	0.289	-0.0000	-0.0000	-0.0000	-0.0000
14	19	0.268	0.0810	0.0810	0.0927	0.0979	52	312	0.265	0.0559	0.0559	0.0639	0.0674
15	20	0.268	0.0758	0.0758	0.0867	0.0916	53	313	0.264	0.0437	0.0437	0.0499	0.0527
16	21	0.269	0.0797	0.0797	0.0912	0.0963	54	314	0.264	0.0262	0.0262	0.0299	0.0316
17	22	0.269	0.0805	0.0805	0.0921	0.0972	55	315	0.263	0.0145	0.0145	0.0166	0.0175
18	23	0.269	0.0807	0.0807	0.0923	0.0975	56	316	0.262	0.0080	0.0080	0.0091	0.0096
19	24	0.269	0.0811	0.0811	0.0928	0.0980	57	317	0.262	0.0032	0.0032	0.0036	0.0038
20	25	0.269	0.0802	0.0802	0.0918	0.0969	58	318	0.261	0.0016	0.0016	0.0018	0.0019
21	103	0.273	0.0770	0.0770	0.0882	0.0932	59	319	0.251	0.0013	0.0013	0.0014	0.0015
22	105	0.274	0.0762	0.0762	0.0872	0.0922	60	320	0.261	0.0017	0.0017	0.0020	0.0021
23	107	0.273	0.0739	0.0739	0.0846	0.0894	61	506	0.268	0.0646	0.0646	0.0739	0.0781
24	108	0.272	0.0661	0.0661	0.0757	0.0800	62	507	0.267	0.0842	0.0842	0.0963	0.1017
25	110	0.271	0.0517	0.0517	0.0591	0.0625	63	508	0.266	0.1059	0.1059	0.1210	0.1278
26	111	0.270	0.0429	0.0429	0.0491	0.0519	64	509	0.265	0.1094	0.1094	0.1251	0.1320
27	112	0.269	0.0295	0.0295	0.0337	0.0356	65	510	0.265	0.1047	0.1047	0.1197	0.1264
28	113	0.268	0.0178	0.0178	0.0203	0.0215	66	511	0.266	0.1036	0.1036	0.1184	0.1250
29	114	0.267	0.0054	0.0054	0.0062	0.0065	67	512	0.265	0.0955	0.0955	0.1092	0.1152
30	115	0.265	0.0016	0.0016	0.0018	0.0019	68	513	0.265	0.0815	0.0815	0.0931	0.0983
31	203	0.270	0.0696	0.0696	0.0796	0.0841	69	514	0.264	0.0528	0.0528	0.0604	0.0637
32	205	0.271	0.0679	0.0679	0.0777	0.0820	70	515	0.263	0.0337	0.0337	0.0385	0.0407
33	207	0.271	0.0694	0.0694	0.0794	0.0839	71	601	0.264	0.0000	0.0000	0.0000	0.0000
34	208	0.270	0.0732	0.0732	0.0837	0.0885	72	602	0.262	0.0000	0.0000	0.0000	0.0000
35	210	0.269	0.0687	0.0687	0.0786	0.0830	73	603	0.289	-0.0000	-0.0000	-0.0000	-0.0000
36	211	0.269	0.0635	0.0635	0.0725	0.0767	74	604	0.261	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.268	0.0515	0.0515	0.0589	0.0622	75	605	0.261	-0.0000	-0.0000	-0.0000	-0.0000
38	213	0.289	0.0001	0.0001	0.0001	0.0001							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	3.2743E 06	9.9800E 05	0.305	10.17	1116.6	1.1791E 07	0.3048	1.000	RUN NO. 87
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.9800E 05	9.9800E 05	1.000	149.49	2009.8	5071.04	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	310.2	558.4	3.344	2.947	12.015	10.587	1.0555E-03	1.1143E-03	0.321
2	7	310.3	558.5	3.436	3.028	12.015	10.586	1.0844E-03	1.1449E-03	0.325
3	8	310.4	558.7	3.373	2.972	12.013	10.585	1.0647E-03	1.1240E-03	0.323
4	9	310.4	558.8	3.396	2.992	12.012	10.584	1.0721E-03	1.1318E-03	0.321
5	10	310.6	559.0	3.410	3.005	12.010	10.583	1.0767E-03	1.1366E-03	0.316
6	11	310.7	559.3	3.341	2.944	12.008	10.581	1.0552E-03	1.1141E-03	0.316
7	12	310.8	559.4	3.302	2.910	12.007	10.580	1.0429E-03	1.1011E-03	0.313
8	13	311.1	559.9	3.165	2.789	12.003	10.576	9.9997E-04	1.0558E-03	0.304
9	14	311.3	560.3	2.996	2.640	12.000	10.573	9.4673E-04	9.9960E-04	0.277
10	15	311.3	560.3	2.578	2.271	12.000	10.573	8.1467E-04	8.6016E-04	0.262
11	16	311.6	560.8	2.343	2.065	11.996	10.570	7.4082E-04	7.8220E-04	0.253
12	17	312.5	562.5	2.561	2.257	11.982	10.557	8.1079E-04	8.5615E-04	0.324
13	18	314.1	565.4	1.223	1.078	11.958	10.536	3.8806E-04	4.0982E-04	0.206
14	19	314.7	566.4	0.968	0.853	11.949	10.529	3.0734E-04	3.2459E-04	0.125
15	20	315.0	567.0	0.905	0.798	11.945	10.525	2.8752E-04	3.0366E-04	0.111
16	21	315.2	567.4	0.952	0.839	11.941	10.522	3.0249E-04	3.1946E-04	0.140
17	22	315.6	568.1	0.961	0.846	11.935	10.517	3.0536E-04	3.2252E-04	0.158
18	23	315.9	568.5	0.962	0.848	11.932	10.514	3.0601E-04	3.2321E-04	0.173
19	24	316.3	569.4	0.968	0.853	11.925	10.508	3.0784E-04	3.2515E-04	0.180
20	25	315.8	568.4	0.957	0.843	11.933	10.515	3.0431E-04	3.2141E-04	0.174
21	103	320.2	576.4	0.914	0.806	11.867	10.457	2.9239E-04	3.0892E-04	0.173
22	105	321.4	578.6	0.903	0.795	11.849	10.441	2.8913E-04	3.0551E-04	0.167
23	107	320.8	577.5	0.876	0.772	11.859	10.449	2.8036E-04	2.9623E-04	0.157
24	108	319.6	575.3	0.785	0.692	11.876	10.465	2.5095E-04	2.6513E-04	0.067
25	110	318.2	572.8	0.615	0.542	11.897	10.483	1.9604E-04	2.0709E-04	0.022
26	111	317.5	571.6	0.511	0.450	11.907	10.492	1.6289E-04	1.7207E-04	0.068
27	112	316.1	569.0	0.352	0.310	11.928	10.510	1.1186E-04	1.1815E-04	0.218
28	113	314.9	566.9	0.212	0.187	11.945	10.525	6.7431E-05	7.1215E-05	0.271
29	114	313.1	563.6	0.065	0.057	11.972	10.549	2.0569E-05	2.1721E-05	0.095
30	115	311.5	560.8	0.019	0.017	11.996	10.570	5.9552E-06	6.2879E-06	-0.467
31	203	317.3	571.1	0.828	0.730	11.911	10.495	2.6392E-04	2.7878E-04	0.148
32	205	318.2	572.8	0.807	0.711	11.897	10.483	2.5752E-04	2.7205E-04	0.148
33	207	317.8	572.0	0.826	0.728	11.904	10.489	2.6338E-04	2.7822E-04	0.176
34	208	317.0	570.7	0.872	0.768	11.915	10.498	2.7769E-04	2.9332E-04	0.128
35	210	315.8	568.4	0.820	0.722	11.933	10.515	2.6054E-04	2.7518E-04	0.012
36	211	315.2	567.4	0.758	0.668	11.941	10.522	2.4092E-04	2.5445E-04	0.029
37	212	314.1	565.4	0.616	0.543	11.957	10.536	1.9537E-04	2.0632E-04	0.103
38	213	338.7	609.7	0.001	0.001	11.594	10.216	2.0817E-07	2.2026E-07	1.273
39	214	338.7	609.7	-0.000	-0.000	11.594	10.216	-8.4895E-17	-8.9826E-17	*******
40	215	310.8	559.4	0.136	0.120	12.007	10.580	4.3038E-05	4.5440E-05	0.381
41	216	307.7	553.8	0.030	0.027	12.053	10.620	9.5372E-06	1.0067E-05	-0.755
42	217	310.1	558.1	0.010	0.009	12.018	10.589	3.1249E-06	3.2991E-06	-1.152
43	218	307.0	552.5	-0.000	-0.000	12.064	10.630	-1.0086E-07	-1.0646E-07	32.742
44	219	306.8	552.3	-0.007	-0.007	12.065	10.631	-2.3431E-06	-2.4731E-06	1.321
45	220	306.6	551.9	-0.014	-0.012	12.069	10.634	-4.3827E-06	-4.6258E-06	0.590
46	306	338.7	609.7	0.000	0.000	11.594	10.216	7.5108E-08	7.9270E-08	1.371
47	307	315.3	567.5	0.778	0.686	11.940	10.521	2.4718E-04	2.6106E-04	0.124
48	308	314.6	566.3	0.924	0.814	11.951	10.530	2.9322E-04	3.0967E-04	0.089
49	309	313.8	564.9	0.921	0.811	11.962	10.540	2.9203E-04	3.0840E-04	0.010
50	310	313.4	564.1	0.902	0.795	11.968	10.546	2.8595E-04	3.0197E-04	0.036
51	311	338.7	609.7	-0.000	-0.000	11.594	10.216	-7.6745E-14	-8.1202E-14	*******
52	312	310.8	559.4	0.671	0.591	12.007	10.580	2.1188E-04	2.2370E-04	0.178
53	313	309.8	557.6	0.525	0.463	12.022	10.593	1.6569E-04	1.7493E-04	0.213
54	314	309.4	556.9	0.315	0.277	12.028	10.598	9.9182E-05	1.0471E-04	0.164
55	315	308.5	555.3	0.175	0.154	12.041	10.610	5.4990E-05	5.8048E-05	0.123
56	316	307.8	554.1	0.096	0.085	12.051	10.619	3.0188E-05	3.1865E-05	0.088
57	317	307.3	553.1	0.038	0.034	12.059	10.625	1.2023E-05	1.2691E-05	-0.189
58	318	307.0	552.5	0.019	0.017	12.064	10.630	5.9971E-06	6.3300E-06	-0.412
59	319	306.8	552.2	0.015	0.013	12.066	10.632	4.7868E-06	5.0524E-06	0.076
60	320	306.8	552.3	0.021	0.018	12.066	10.632	6.5497E-06	6.9132E-06	0.681
61	505	314.5	566.1	0.772	0.681	11.952	10.531	2.4513E-04	2.5888E-04	0.090
62	507	313.9	564.9	1.008	0.888	11.961	10.540	3.1953E-04	3.3743E-04	0.138
63	508	312.7	562.8	1.268	1.117	11.979	10.555	4.0150E-04	4.2397E-04	0.157
64	509	311.0	559.8	1.313	1.157	12.004	10.577	4.1493E-04	4.3809E-04	0.094
65	510	311.6	561.0	1.256	1.107	11.994	10.569	3.9707E-04	4.1926E-04	0.079
66	511	311.7	561.1	1.242	1.094	11.993	10.568	3.9276E-04	4.1471E-04	0.099
67	512	311.1	560.0	1.145	1.010	12.002	10.575	3.6213E-04	3.8235E-04	0.232
68	513	310.5	559.0	0.979	0.862	12.011	10.583	3.0900E-04	3.2623E-04	0.305
69	514	309.4	556.9	0.635	0.550	12.028	10.598	2.0031E-04	2.1147E-04	0.331
70	515	308.3	555.0	0.406	0.358	12.044	10.612	1.2782E-04	1.3492E-04	0.356
71	601	309.4	556.9	0.000	0.000	12.028	10.598	0.0000E-39	0.0000E-39	-13.950
72	602	308.0	554.5	0.000	0.000	12.048	10.616	0.0000E-39	0.0000E-39	*******
73	603	338.7	609.7	-0.000	-0.000	11.594	10.216	-0.0000E-39	-0.0000E-39	*******
74	604	306.9	552.5	-0.000	-0.000	12.064	10.630	-0.0000E-39	-0.0000E-39	2.595
75	605	306.3	551.3	-0.000	-0.000	12.074	10.639	-0.0000E-39	-0.0000E-39	1.418

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6586E-01 (SLUGS/FT2-SEC)

1250791

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

Run 87

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.674	7.792	7.349
PT2/PT1	5.133E-02	5.213E-02	4.916E-02
TEMP(DEG R)	2099.0	2136.1	2162.1
TT2/TT1	1.0444	1.0628	1.0758

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 88 FRAME 26 TO 52 CONSTANT SET 551

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 0 1	5.10	0.1942E 07	304.71	2066.06	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.889	2065.710	0.295	0.401	768.312	-0.280	17.6052
0.070	304.706	2066.577	0.293	0.420	769.220	-0.306	17.6092
0.140	304.706	2066.836	0.293	0.612	771.035	-0.306	17.6132
0.210	304.706	2067.355	0.306	1.960	791.743	-0.306	17.6052
0.280	304.889	2066.836	0.547	5.032	1005.814	-0.280	17.5527
0.350	304.706	2065.679	2.468	8.112	1590.271	-0.293	17.5810
0.420	304.706	2066.583	7.006	11.175	1905.269	-0.319	17.6011
0.490	304.706	2066.324	11.135	14.274	1988.680	-0.319	17.5890
0.560	304.706	2067.228	13.517	15.723	2047.390	-0.319	17.5769
0.630	304.889	2066.707	15.132	16.117	2105.401	-0.293	17.5890
0.700	304.706	2066.064	16.072	15.678	2122.034	-0.306	34.5768
0.770	304.706	2066.189	16.350	15.055	2137.340	-0.306	34.8512
0.840	304.889	2066.069	16.260	14.705	2146.883	-0.332	34.9117
0.910	304.706	2066.060	16.130	14.727	2154.505	-0.319	34.9117
0.980	304.889	2066.185	16.019	14.925	2160.848	-0.306	34.8996
1.050	304.889	2066.060	15.969	15.175	2161.482	-0.293	34.9236
1.120	304.523	2065.542	15.979	15.395	2172.879	-0.319	34.8754
1.190	304.889	2065.929	16.016	15.584	2174.776	-0.319	34.8754
1.260	304.706	2066.322	16.029	15.706	2181.094	-0.319	34.9158
1.330	304.706	2065.929	16.029	15.775	2171.613	-0.293	34.9238
1.400	304.889	2065.284	16.024	15.817	2168.449	-0.306	34.9238
1.470	304.706	2065.024	16.016	15.842	2169.082	-0.332	34.9198
1.540	304.706	2065.279	16.021	15.870	2171.613	-0.319	34.9279
1.610	304.523	2065.023	16.029	15.898	2192.450	-0.332	34.9238
1.680	304.706	2065.158	16.027	15.942	2184.882	-0.306	34.9198
1.750	304.889	2065.027	16.016	15.978	2180.463	-0.306	34.9198
1.820	304.523	2064.937	16.019	16.028	2179.831	-0.319	34.8391

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.13	6.3699E 06	1.9915E 06	0.305	20.73	1147.8	0.12154E 07	0.3048	1.000	RUN NO. 88
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.13	1.9415E 06	1.9415E 05	1.000	304.71	2066.1	522.54	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.260	0.2906	0.2906	0.3319	0.3503	39	214	0.280	0.0000	0.0000	0.0000	0.0000
2	7	0.260	0.2978	0.2978	0.3401	0.3590	40	215	0.261	0.0123	0.0123	0.0141	0.0148
3	8	0.260	0.2947	0.2947	0.3366	0.3552	41	216	0.256	0.0068	0.0068	0.0078	0.0082
4	9	0.261	0.3036	0.3036	0.3468	0.3660	42	217	0.258	0.0086	0.0086	0.0098	0.0103
5	10	0.261	0.3143	0.3143	0.3590	0.3789	43	218	0.254	0.0094	0.0094	0.0107	0.0113
6	11	0.261	0.3168	0.3168	0.3618	0.3819	44	219	0.254	0.0112	0.0112	0.0128	0.0135
7	12	0.261	0.3203	0.3203	0.3658	0.3861	45	220	0.254	0.0112	0.0112	0.0128	0.0134
8	13	0.262	0.3134	0.3134	0.3581	0.3779	46	306	0.280	0.0000	0.0000	0.0000	0.0000
9	14	0.262	0.3208	0.3208	0.3665	0.3869	47	307	0.268	0.2936	0.2936	0.3357	0.3545
10	15	0.262	0.3082	0.3082	0.3520	0.3716	48	308	0.257	0.3047	0.3047	0.3484	0.3679
11	16	0.252	0.3079	0.3079	0.3518	0.3713	49	309	0.265	0.2879	0.2879	0.3291	0.3475
12	17	0.264	0.4776	0.4776	0.5458	0.5762	50	310	0.265	0.2763	0.2763	0.3159	0.3335
13	18	0.267	0.3551	0.3551	0.4061	0.4288	51	311	0.280	-0.0000	-0.0000	-0.0000	-0.0000
14	19	0.268	0.3360	0.3360	0.3843	0.4058	52	312	0.261	0.2033	0.2033	0.2322	0.2451
15	20	0.268	0.2885	0.2885	0.3300	0.3485	53	313	0.000	*******	*******	*******	*******
16	21	0.269	0.2488	0.2488	0.2846	0.3005	54	314	0.259	0.1004	0.1004	0.1146	0.1210
17	22	0.269	0.1711	0.1711	0.1957	0.2067	55	315	0.257	0.0582	0.0582	0.0664	0.0701
18	23	0.269	0.0910	0.0910	0.1041	0.1100	56	316	0.256	0.0359	0.0359	0.0410	0.0433
19	24	0.270	0.0541	0.0541	0.0619	0.0653	57	317	0.255	0.0213	0.0213	0.0243	0.0257
20	25	0.269	0.0458	0.0458	0.0524	0.0553	58	318	0.255	0.0158	0.0158	0.0180	0.0190
21	103	0.274	0.0560	0.0560	0.0642	0.0678	59	319	0.254	0.0145	0.0145	0.0165	0.0174
22	105	0.277	0.0526	0.0526	0.0602	0.0636	60	320	0.254	0.0177	0.0177	0.0202	0.0213
23	107	0.276	0.0415	0.0415	0.0476	0.0503	61	505	0.266	0.2990	0.2990	0.3419	0.3610
24	108	0.275	0.0306	0.0306	0.0350	0.0370	62	507	0.265	0.3051	0.3051	0.3488	0.3682
25	110	0.273	0.0195	0.0195	0.0224	0.0236	63	508	0.263	0.3191	0.3191	0.3647	0.3850
26	111	0.272	0.0154	0.0154	0.0176	0.0186	64	509	0.261	0.3124	0.3124	0.3568	0.3766
27	112	0.270	0.0102	0.0102	0.0117	0.0123	65	510	0.263	0.3006	0.3006	0.3435	0.3626
28	113	0.268	0.0067	0.0067	0.0077	0.0081	66	511	0.263	0.2944	0.2944	0.3363	0.3550
29	114	0.266	0.0025	0.0025	0.0028	0.0030	67	512	0.262	0.2765	0.2765	0.3159	0.3334
30	115	0.263	0.0016	0.0015	0.0019	0.0020	68	513	0.261	0.2499	0.2499	0.2854	0.3012
31	203	0.270	0.0516	0.0516	0.0590	0.0624	69	514	0.259	0.1915	0.1915	0.2186	0.2307
32	205	0.271	0.0746	0.0746	0.0853	0.0901	70	515	0.257	0.1398	0.1398	0.1596	0.1684
33	207	0.271	0.1338	0.1338	0.1531	0.1618	71	601	0.259	-0.0000	-0.0000	-0.0000	-0.0000
34	208	0.270	0.1650	0.1650	0.1773	0.1873	72	602	0.257	-0.0000	-0.0000	-0.0000	-0.0000
35	210	0.268	0.1379	0.1379	0.1578	0.1666	73	603	0.280	0.0000	0.0000	0.0000	0.0000
36	211	0.268	0.1223	0.1223	0.1399	0.1478	74	604	0.254	0.0000	0.0000	0.0000	0.0000
37	212	0.266	0.0909	0.0909	0.1039	0.1097	75	605	0.253	0.0000	0.0000	0.0000	0.0000
38	213	0.280	-0.0000	-0.0000	-0.0000	-0.0000							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	R(METER)	HAW/HT	TEST NO.	182
9.10	9.3099E 06	1.9415E 06	0.305	20.73	1147.8	2.1215+E 07	0.3048	1.000	RUN NO.	88
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
9.10	1.9415E 06	1.9415E 06	1.000	304.71	2066.1	922.64	1.0000	1.000		

CHAN	T/C	TW(DEG K)	TW(DEG R)	QW(W/CM2)	QW(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	314.7	566.5	5.165	4.551	17.770	15.658	7.8709E-04	8.3065E-04	0.305
2	7	314.9	566.8	5.292	4.663	17.768	15.656	8.0652E-04	8.5120E-04	0.307
3	8	315.2	567.4	5.234	4.612	17.761	15.650	7.9814E-04	8.4237E-04	0.307
4	9	315.4	567.7	5.392	4.751	17.757	15.647	8.2231E-04	8.6789E-04	0.314
5	10	315.5	567.9	5.580	4.917	17.755	15.644	8.5116E-04	8.9834E-04	0.322
6	11	315.8	568.4	5.623	4.954	17.749	15.639	8.5794E-04	9.0553E-04	0.328
7	12	316.0	568.8	5.683	5.007	17.744	15.635	8.6743E-04	9.1555E-04	0.321
8	13	316.6	569.8	5.658	4.985	17.732	15.624	8.4895E-04	8.9638E-04	0.339
9	14	316.8	570.3	5.687	5.011	17.726	15.619	8.6903E-04	9.1729E-04	0.291
10	15	316.7	570.1	5.463	4.814	17.728	15.621	8.3465E-04	8.8100E-04	0.304
11	16	317.0	570.6	5.457	4.808	17.723	15.616	8.3399E-04	8.8032E-04	0.315
12	17	319.2	574.5	8.442	7.439	17.677	15.575	1.2439E-03	1.3059E-03	0.289
13	18	323.0	581.3	6.249	5.506	17.597	15.505	9.6231E-04	1.0162E-03	0.338
14	19	324.1	583.3	5.904	5.202	17.573	15.485	9.1058E-04	9.6165E-04	0.325
15	20	324.5	584.1	5.067	4.465	17.564	15.476	7.8185E-04	8.2574E-04	0.276
16	21	325.0	584.9	4.367	3.848	17.554	15.468	6.7427E-04	7.1213E-04	0.238
17	22	325.4	585.8	3.002	2.645	17.545	15.459	4.6379E-04	4.8985E-04	0.155
18	23	325.9	586.5	1.596	1.406	17.535	15.451	2.4670E-04	2.6057E-04	0.039
19	24	326.6	587.8	0.947	0.835	17.520	15.438	1.4658E-04	1.5483E-04	-0.008
20	25	325.2	585.4	0.804	0.708	17.549	15.463	1.2415E-04	1.3113E-04	-0.075
21	103	331.9	597.5	0.975	0.859	17.407	15.338	1.5196E-04	1.6057E-04	0.045
22	105	334.6	602.3	0.912	0.804	17.350	15.288	1.4259E-04	1.5071E-04	0.036
23	107	334.2	601.5	0.721	0.635	17.360	15.297	1.1266E-04	1.1907E-04	-0.050
24	108	332.4	598.3	0.532	0.468	17.397	15.329	8.2892E-05	8.7595E-05	-0.295
25	110	330.3	594.6	0.341	0.300	17.441	15.368	5.2962E-05	5.5958E-05	-0.565
26	111	329.2	592.6	0.269	0.237	17.465	15.389	4.1690E-05	4.4045E-05	-0.610
27	112	326.9	588.4	0.178	0.157	17.513	15.431	2.7608E-05	2.9163E-05	-0.620
28	113	324.9	584.8	0.118	0.104	17.556	15.469	1.8276E-05	1.9302E-05	-0.654
29	114	321.4	578.6	0.043	0.038	17.629	15.533	6.6622E-06	7.0345E-06	-1.229
30	115	318.4	573.1	0.029	0.026	17.693	15.590	4.4516E-06	4.6993E-06	-0.724
31	203	326.2	587.1	0.935	0.797	17.529	15.445	1.3989E-04	1.4776E-04	-0.040
32	205	328.0	590.4	1.304	1.149	17.491	15.411	2.0215E-04	2.1355E-04	0.037
33	207	327.8	590.1	2.341	2.063	17.494	15.415	3.6276E-04	3.8322E-04	0.079
34	208	326.8	588.3	2.715	2.392	17.515	15.433	4.2015E-04	4.4381E-04	0.029
35	210	324.8	584.6	2.422	2.134	17.558	15.471	3.7384E-04	3.9483E-04	0.018
36	211	323.8	582.8	2.151	1.895	17.579	15.489	3.3155E-04	3.5014E-04	0.101
37	212	322.0	579.6	1.601	1.410	17.617	15.523	2.4618E-04	2.5995E-04	0.234
38	213	338.7	609.7	-0.000	-0.000	17.264	15.212	-3.7705E-14	-3.9863E-14	*******
39	214	338.7	609.7	0.000	0.000	17.264	15.212	1.1080E-16	1.1714E-16	*******
40	215	315.5	567.9	0.219	0.193	17.754	15.644	3.3355E-05	3.5204E-05	-0.318
41	216	309.7	557.4	0.122	0.108	17.878	15.753	1.8482E-05	1.9498E-05	-0.409
42	217	311.8	561.3	0.153	0.135	17.832	15.713	2.3247E-05	2.4530E-05	0.321
43	218	307.9	554.2	0.168	0.148	17.916	15.786	2.5450E-05	2.6847E-05	0.128
44	219	307.4	553.3	0.202	0.178	17.926	15.795	3.0431E-05	3.2099E-05	0.384
45	220	307.0	552.5	0.200	0.177	17.935	15.803	3.0254E-05	3.1912E-05	0.373
46	306	338.7	609.7	0.000	0.000	17.263	15.211	3.1963E-11	3.3792E-11	203.525
47	307	323.8	582.8	5.161	4.547	17.580	15.490	7.9558E-04	8.4018E-04	0.285
48	308	322.5	580.5	5.364	4.726	17.606	15.513	8.2561E-04	8.7182E-04	0.245
49	309	321.2	578.2	5.077	4.473	17.633	15.537	7.8009E-04	8.2368E-04	0.186
50	310	320.3	576.5	4.878	4.299	17.653	15.555	7.4873E-04	7.9051E-04	0.192
51	311	338.7	609.7	-0.000	-0.000	17.264	15.212	-7.4750E-08	-7.9028E-08	0.587
52	312	315.6	568.1	3.609	3.180	17.752	15.642	5.5056E-04	5.8139E-04	0.256
53	313	0.0	0.0	*******	*******	**********	**********	1.2341E 02	1.2[illegible]E 02	0.000
54	314	313.6	564.4	1.787	1.574	17.796	15.680	2.7184E-04	2.8687E-04	0.244
55	315	311.5	560.6	1.038	0.914	17.840	15.720	1.5750E-04	1.6619E-04	0.178
56	316	310.0	558.0	0.642	0.566	17.872	15.747	9.7259E-05	1.0261E-04	0.128
57	317	308.5	555.4	0.382	0.336	17.902	15.774	5.7687E-05	6.0856E-05	0.055
58	318	308.3	554.9	0.283	0.249	17.907	15.779	4.2747E-05	4.5094E-05	0.088
59	319	307.8	554.1	0.259	0.229	17.917	15.788	3.9199E-05	4.1350E-05	0.135
60	320	307.6	553.7	0.318	0.280	17.922	15.791	4.7463E-05	5.0059E-05	0.273
61	506	321.8	579.3	5.269	4.642	17.620	15.526	8.1023E-04	8.5554E-04	0.275
62	507	320.6	577.0	5.385	4.745	17.647	15.550	8.2671E-04	8.7286E-04	0.259
63	508	318.5	573.3	5.645	4.974	17.690	15.588	8.6448E-04	9.1260E-04	0.267
64	509	316.0	568.9	5.943	4.884	17.743	15.634	8.4806E-04	8.9499E-04	0.229
65	510	318.1	572.5	5.521	4.689	17.700	15.596	8.1437E-04	8.5977E-04	0.227
66	511	317.8	572.1	5.212	4.593	17.706	15.601	7.9739E-04	8.4178E-04	0.222
67	512	316.7	570.1	4.402	4.319	17.728	15.621	7.4893E-04	7.9052E-04	0.283
68	513	315.6	568.0	4.436	3.909	17.753	15.643	6.7669E-04	7.1421E-04	0.320
69	514	313.4	564.1	3.408	3.003	17.800	15.684	5.1540E-04	5.4706E-04	0.314
70	515	311.5	560.6	2.444	2.198	17.840	15.720	3.7854E-04	3.9941E-04	0.292
71	501	319.7	564.7	-0.000	-0.000	17.792	15.677	-0.0000E-39	-0.0000E-39	27.770
72	502	310.0	559.0	-0.000	-0.000	17.859	15.736	-0.0000E-39	-0.0000E-39	7.687
73	503	338.7	609.7	0.000	0.000	17.264	15.212	0.0000E-39	0.0000E-39	*******
74	504	307.2	553.0	0.000	0.000	17.930	15.799	0.0000E-39	0.0000E-39	-71.894
75	505	305.6	550.1	0.000	0.000	17.965	15.829	0.0000E-39	0.0000E-39	-13.062

FREE-STREAM DENSITY-VELOCITY PRODUCT = 9.3073E-01 (SLUGS/FT2-SEC)

1360708

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

Run 88

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.509	16.019	16.028
PT2/PT1	5.418E-02	5.257E-02	5.260E-02
TEMP(DEG R)	2150.1	2179.8	2248.9
TT2/TT1	1.0407	1.0551	1.0885

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HI DATA TEST NO. 182 RUN NO. 89 FRAME 26 TO 52 CONSTANT SET 551

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 0 1	5.10	0.5031E 06	75.42	2010.83	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	75.237	2009.140	0.101	0.157	663.496	-0.280	17.6092
0.070	75.420	2009.534	0.099	0.163	663.496	-0.293	17.6132
0.140	75.420	2009.795	0.101	0.246	664.479	-0.280	17.6132
0.210	75.420	2010.183	0.107	0.668	677.193	-0.280	17.6132
0.280	75.420	2009.270	0.212	1.463	875.298	-0.280	17.6052
0.350	75.237	2009.140	0.784	2.222	1362.485	-0.293	17.6011
0.420	75.420	2009.007	1.861	2.898	1675.207	-0.280	17.6132
0.490	75.420	2009.663	2.777	3.495	1808.184	-0.293	17.6132
0.560	75.420	2010.444	3.269	3.835	1869.081	-0.280	17.6132
0.630	75.602	2009.526	3.627	3.912	1918.604	-0.280	17.5685
0.700	75.420	2009.138	3.891	3.732	1959.055	-0.293	34.8109
0.770	75.237	2009.395	4.045	3.454	1979.483	-0.293	34.9117
0.840	75.420	2009.656	4.071	3.251	1994.583	-0.293	34.9279
0.910	75.420	2010.833	4.050	3.195	2011.596	-0.293	34.9198
0.980	75.602	2009.654	4.037	3.234	2026.597	-0.280	34.9238
1.050	75.420	2009.525	4.024	3.287	2039.852	-0.293	34.9238
1.120	75.420	2009.525	4.021	3.334	2049.902	-0.293	34.9319
1.190	75.420	2009.785	4.024	3.379	2051.927	-0.293	34.9319
1.260	75.237	2011.092	4.021	3.404	2053.870	-0.293	34.9359
1.330	75.420	2009.523	4.018	3.418	2057.753	-0.280	34.9238
1.400	75.420	2009.523	4.018	3.437	2071.322	-0.280	34.9279
1.470	75.420	2009.655	4.024	3.445	2078.414	-0.293	34.9319
1.540	75.420	2009.654	4.024	3.470	2085.496	-0.280	34.9319
1.610	75.420	2010.306	4.024	3.484	2088.069	-0.293	34.9359
1.680	75.420	2009.783	4.024	3.495	2091.283	-0.280	34.9198
1.750	75.237	2009.522	4.024	3.487	2091.283	-0.280	34.9279
1.820	75.237	2009.653	4.024	3.470	2100.913	-0.293	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6535E 06	5.0307E 05	0.305	5.13	1117.1	0.11798E 07	0.3048	1.000	RUN NO. 89
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.0307E 05	5.0307E 05	1.000	75.42	2013.8	507.33	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.266	0.0534	0.0534	0.0610	0.0644	39	214	0.288	-0.0000	-0.0000	-0.0000	-0.0000
2	7	0.266	0.0547	0.0547	0.0625	0.0660	40	215	0.266	0.0011	0.0011	0.0013	0.0013
3	8	0.266	0.0550	0.0550	0.0629	0.0664	41	216	0.265	-0.0002	-0.0002	-0.0003	-0.0003
4	9	0.266	0.0553	0.0553	0.0632	0.0667	42	217	0.265	-0.0002	-0.0002	-0.0002	-0.0002
5	10	0.266	0.0567	0.0567	0.0648	0.0685	43	218	0.264	-0.0003	-0.0003	-0.0003	-0.0003
6	11	0.266	0.0557	0.0557	0.0637	0.0672	44	219	0.264	-0.0004	-0.0004	-0.0004	-0.0005
7	12	0.266	0.0578	0.0578	0.0661	0.0698	45	220	0.264	-0.0006	-0.0006	-0.0007	-0.0007
8	13	0.267	0.0575	0.0575	0.0658	0.0695	46	306	0.288	0.0001	0.0001	0.0001	0.0001
9	14	0.267	0.0607	0.0607	0.0694	0.0733	47	307	0.269	0.0652	0.0652	0.0746	0.0788
10	15	0.267	0.0603	0.0603	0.0690	0.0728	48	308	0.268	0.0589	0.0589	0.0674	0.0712
11	16	0.267	0.0609	0.0609	0.0696	0.0735	49	309	0.268	0.0491	0.0491	0.0561	0.0593
12	17	0.267	0.0651	0.0651	0.0744	0.0786	50	310	0.268	0.0446	0.0446	0.0510	0.0538
13	18	0.268	0.0720	0.0720	0.0824	0.0870	51	311	0.288	-0.0000	-0.0000	-0.0000	-0.0000
14	19	0.268	0.0728	0.0728	0.0833	0.0879	52	312	0.266	0.0212	0.0212	0.0243	0.0257
15	20	0.268	0.0756	0.0756	0.0865	0.0914	53	313	0.266	0.0118	0.0118	0.0135	0.0143
16	21	0.268	0.0812	0.0812	0.0928	0.0980	54	314	0.266	0.0030	0.0030	0.0034	0.0036
17	22	0.268	0.0821	0.0821	0.0940	0.0992	55	315	0.265	0.0004	0.0004	0.0004	0.0005
18	23	0.268	0.0838	0.0838	0.0958	0.1012	56	316	0.265	-0.0005	-0.0005	-0.0006	-0.0006
19	24	0.269	0.0877	0.0877	0.1003	0.1059	57	317	0.265	0.0001	0.0001	0.0001	0.0001
20	25	0.268	0.0898	0.0898	0.1028	0.1085	58	318	0.265	-0.0004	-0.0004	-0.0005	-0.0005
21	103	0.271	0.0860	0.0860	0.0984	0.1039	59	319	0.264	-0.0006	-0.0006	-0.0007	-0.0007
22	105	0.272	0.0846	0.0846	0.0968	0.1023	60	320	0.264	-0.0001	-0.0001	-0.0001	-0.0001
23	107	0.271	0.0828	0.0828	0.0948	0.1001	61	506	0.268	0.0611	0.0611	0.0698	0.0738
24	108	0.270	0.0751	0.0751	0.0859	0.0907	62	507	0.268	0.0603	0.0603	0.0690	0.0729
25	110	0.270	0.0575	0.0575	0.0658	0.0695	63	508	0.268	0.0568	0.0568	0.0649	0.0686
26	111	0.269	0.0476	0.0476	0.0544	0.0575	64	509	0.267	0.0471	0.0471	0.0539	0.0569
27	112	0.269	0.0317	0.0317	0.0363	0.0383	65	510	0.267	0.0410	0.0410	0.0468	0.0495
28	113	0.268	0.0181	0.0181	0.0207	0.0219	66	511	0.267	0.0363	0.0363	0.0415	0.0438
29	114	0.267	0.0047	0.0047	0.0053	0.0056	67	512	0.267	0.0242	0.0242	0.0277	0.0292
30	115	0.266	0.0011	0.0011	0.0013	0.0014	68	513	0.266	0.0144	0.0144	0.0165	0.0174
31	203	0.270	0.0772	0.0772	0.0883	0.0933	69	514	0.266	0.0034	0.0034	0.0039	0.0041
32	205	0.270	0.0778	0.0778	0.0890	0.0940	70	515	0.265	0.0009	0.0009	0.0010	0.0011
33	207	0.270	0.0748	0.0748	0.0855	0.0903	71	601	0.265	0.0000	0.0000	0.0000	0.0000
34	208	0.269	0.0684	0.0684	0.0783	0.0827	72	602	0.265	0.0000	0.0000	0.0000	0.0000
35	210	0.269	0.0519	0.0519	0.0594	0.0628	73	603	0.265	0.0000	0.0000	0.0000	0.0000
36	211	0.268	0.0438	0.0438	0.0501	0.0530	74	604	0.264	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.268	0.0299	0.0299	0.0342	0.0361	75	605	0.264	-0.0000	-0.0000	-0.0000	-0.0000
38	213	0.288	0.0002	0.0002	0.0002	0.0002							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	1.6509E 06	5.0307E 05	0.305	5.13	1117.1	0.1179E 07	0.3048	1.000	RUN NO. 89
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	5.0307E 05	5.0307E 05	1.000	75.42	2010.8	507.33	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.974)	TIME(SEC)
1	6	312.4	562.4	0.455	0.401	8.518	7.505	2.8505E-04	3.0098E-04	0.002
2	7	312.5	562.4	0.465	0.410	8.517	7.505	2.9192E-04	3.0824E-04	0.025
3	8	312.7	562.8	0.468	0.413	8.515	7.503	2.9382E-04	3.1025E-04	0.041
4	9	312.7	562.8	0.471	0.415	8.515	7.503	2.9526E-04	3.1178E-04	0.050
5	10	312.9	563.1	0.483	0.425	8.514	7.502	3.0288E-04	3.1982E-04	0.048
6	11	312.8	563.1	0.474	0.418	8.513	7.501	2.9744E-04	3.1408E-04	0.035
7	12	313.0	563.4	0.492	0.434	8.512	7.500	3.0884E-04	3.2613E-04	0.039
8	13	313.2	563.8	0.490	0.431	8.509	7.498	3.0738E-04	3.2459E-04	0.038
9	14	313.3	564.0	0.516	0.455	8.508	7.497	3.2411E-04	3.4226E-04	0.040
10	15	313.5	564.2	0.513	0.452	8.507	7.496	3.2214E-04	3.4018E-04	0.085
11	16	313.7	564.6	0.518	0.456	8.505	7.494	3.2537E-04	3.4360E-04	0.094
12	17	314.1	565.4	0.553	0.487	8.500	7.489	3.4753E-04	3.6701E-04	0.123
13	18	314.7	566.5	0.612	0.539	8.493	7.484	3.8481E-04	4.0640E-04	0.154
14	19	315.0	567.1	0.618	0.545	8.490	7.481	3.8893E-04	4.1076E-04	0.167
15	20	315.0	567.0	0.642	0.566	8.491	7.481	4.0412E-04	4.2680E-04	0.186
16	21	315.1	567.1	0.689	0.607	8.490	7.481	4.3360E-04	4.5794E-04	0.213
17	22	315.1	567.3	0.697	0.614	8.489	7.480	4.3885E-04	4.6348E-04	0.209
18	23	315.2	567.3	0.711	0.627	8.489	7.480	4.4772E-04	4.7285E-04	0.214
19	24	315.6	568.0	0.744	0.656	8.485	7.476	4.6848E-04	4.9480E-04	0.223
20	25	315.0	567.0	0.763	0.672	8.490	7.481	4.8004E-04	5.0698E-04	0.229
21	103	318.3	573.0	0.727	0.640	8.455	7.450	4.5946E-04	4.8537E-04	0.228
22	105	319.1	574.3	0.714	0.629	8.448	7.444	4.5198E-04	4.7750E-04	0.220
23	107	318.6	573.4	0.700	0.617	8.453	7.448	4.4263E-04	4.6759E-04	0.215
24	108	317.7	571.9	0.635	0.560	8.462	7.456	4.0119E-04	4.2379E-04	0.191
25	110	316.7	570.1	0.487	0.429	8.473	7.466	3.0716E-04	3.2444E-04	0.085
26	111	316.4	569.5	0.403	0.355	8.476	7.469	2.5427E-04	2.6857E-04	0.165
27	112	315.4	567.8	0.269	0.237	8.486	7.477	1.6941E-04	1.7893E-04	0.410
28	113	314.8	566.6	0.154	0.136	8.493	7.483	9.6771E-05	1.0220E-04	0.567
29	114	313.8	564.8	0.040	0.035	8.503	7.493	2.4973E-05	2.6372E-05	0.689
30	115	312.8	563.1	0.010	0.008	8.513	7.501	6.0033E-06	6.3392E-06	0.308
31	203	316.7	570.1	0.654	0.576	8.473	7.466	4.1257E-04	4.3577E-04	0.195
32	205	317.2	570.9	0.659	0.580	8.468	7.461	4.1561E-04	4.3901E-04	0.204
33	207	316.9	570.4	0.633	0.558	8.471	7.464	3.9947E-04	4.2195E-04	0.197
34	208	316.3	569.4	0.580	0.511	8.477	7.469	3.6565E-04	3.8621E-04	0.122
35	210	315.5	567.8	0.441	0.388	8.486	7.477	2.7754E-04	2.9313E-04	0.054
36	211	315.1	567.2	0.372	0.328	8.489	7.480	2.3425E-04	2.4740E-04	0.169
37	212	314.4	566.0	0.254	0.224	8.496	7.487	1.5975E-04	1.6871E-04	0.400
38	213	338.7	609.7	0.001	0.001	8.242	7.262	8.2455E-07	8.7242E-07	0.909
39	214	338.7	609.7	-0.000	-0.000	8.242	7.262	-2.8415E-16	-3.0065E-16	*******
40	215	312.5	562.4	0.009	0.008	8.517	7.505	5.9025E-06	6.2325E-06	0.704
41	216	310.8	559.4	-0.002	-0.002	8.535	7.521	-1.2382E-06	-1.3073E-06	-3.766
42	217	310.7	559.3	-0.001	-0.001	8.536	7.521	-8.4319E-07	-8.9023E-07	-4.612
43	218	310.4	558.8	-0.002	-0.002	8.539	7.524	-1.3506E-06	-1.4259E-06	-2.376
44	219	310.4	558.6	-0.003	-0.003	8.539	7.524	-2.1001E-06	-2.2172E-06	-1.225
45	220	310.2	558.3	-0.005	-0.004	8.541	7.526	-3.0498E-06	-3.2198E-06	0.628
46	306	338.7	609.7	0.001	0.001	8.242	7.262	4.9646E-07	5.2529E-07	1.153
47	307	315.7	568.3	0.553	0.487	8.483	7.475	3.4834E-04	3.6791E-04	0.148
48	308	315.2	567.4	0.500	0.441	8.488	7.479	3.1481E-04	3.3248E-04	0.050
49	309	314.7	566.4	0.417	0.367	8.494	7.484	2.6225E-04	2.7696E-04	-0.021
50	310	314.4	565.9	0.379	0.334	8.497	7.487	2.3816E-04	2.5152E-04	0.050
51	311	338.7	609.7	-0.000	-0.000	8.242	7.262	-1.0307E-07	-1.0905E-07	-0.827
52	312	313.0	563.4	0.181	0.159	8.512	7.500	1.1351E-04	1.1986E-04	0.502
53	313	312.3	562.1	0.101	0.089	8.519	7.507	6.3148E-05	6.6679E-05	0.722
54	314	312.2	561.9	0.026	0.023	8.520	7.508	1.6117E-05	1.7017E-05	1.079
55	315	311.7	561.1	0.003	0.003	8.525	7.511	2.0837E-06	2.2001E-06	2.488
56	316	311.3	560.3	-0.004	-0.004	8.529	7.516	-2.6519E-06	-2.8000E-06	-0.103
57	317	311.0	559.7	0.001	0.001	8.533	7.519	4.4992E-07	4.7503E-07	9.352
58	318	310.8	559.4	-0.004	-0.003	8.535	7.521	-2.2511E-06	-2.3766E-06	0.170
59	319	310.6	559.0	-0.005	-0.004	8.537	7.522	-3.1012E-06	-3.2742E-06	0.364
60	320	310.5	559.0	-0.001	-0.001	8.538	7.523	-4.0005E-07	-4.2236E-07	-5.198
61	505	315.4	567.6	0.418	0.457	8.487	7.478	3.4625E-04	3.4457E-04	0.084
62	507	315.0	566.9	0.412	0.451	8.491	7.482	3.2241E-04	3.4050E-04	0.085
63	508	314.2	565.6	0.482	0.425	8.499	7.488	3.0823E-04	3.2523E-04	0.031
64	509	313.2	563.8	0.401	0.353	8.509	7.498	2.5169E-04	2.6578E-04	-0.053
65	510	313.6	564.5	0.348	0.307	8.505	7.494	2.1879E-04	2.3105E-04	0.031
66	511	313.6	564.5	0.308	0.272	8.505	7.494	1.9366E-04	2.0451E-04	0.076
67	512	313.2	563.7	0.205	0.181	8.510	7.498	1.2918E-04	1.3642E-04	0.381
68	513	312.9	563.2	0.123	0.108	8.513	7.501	7.6931E-05	8.1236E-05	0.590
69	514	312.7	562.9	0.029	0.026	8.520	7.507	1.8250E-05	1.9270E-05	0.980
70	515	311.6	560.8	0.008	0.007	8.527	7.513	4.8575E-06	5.1285E-06	1.365
71	601	311.6	560.9	0.000	0.000	8.526	7.513	0.0000E-39	0.0000E-39	-1.663
72	602	311.3	560.3	0.000	0.000	8.530	7.516	0.0000E-39	0.0000E-39	-0.865
73	603	310.8	559.5	0.000	0.000	8.534	7.520	0.0000E-39	0.0000E-39	1.600
74	604	310.6	559.1	-0.000	-0.000	8.537	7.522	-0.0000E-39	-0.0000E-39	-4.214
75	605	310.1	558.2	-0.000	-0.000	8.542	7.527	-0.0000E-39	-0.0000E-39	0.504

FREE-STREAM DENSITY-VELOCITY PRODUCT = 1.3408E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

Run 89

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	3.681	4.024	3.470
PT2/PT1	4.880E-02	5.335E-02	4.601E-02
TEMP(DEG R)	2021.4	2100.9	2111.8
TT2/TT1	1.0052	1.0448	1.0502

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 90 FRAME 25 TO 52 CONSTANT SET 951

REF1	REF2	REF3	A B C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 0 1	5.10	0.9730E 06	149.47	2040.30	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	149.490	2040.304	8.163	7.207	703.196	-0.267	17.6052
0.070	149.490	2040.172	8.155	7.224	703.196	-0.293	17.6092
0.140	149.490	2040.431	8.155	7.369	706.053	-0.293	17.6132
0.210	149.490	2041.081	8.168	7.114	721.184	-0.293	17.6132
0.280	149.490	2041.212	8.319	2.651	942.810	-0.280	17.6132
0.350	149.490	2040.045	7.369	4.099	1470.486	-0.293	17.5931
0.420	149.490	2040.176	3.558	5.600	1777.465	-0.293	17.6052
0.490	149.490	2040.172	5.419	7.009	1912.608	-0.306	17.6132
0.560	149.490	2040.308	6.530	7.813	1985.397	-0.306	17.6132
0.630	149.490	2041.214	7.390	7.991	2044.147	-0.293	17.5810
0.700	149.490	2039.914	7.959	7.699	2070.677	-0.293	21.7855
0.770	149.490	2040.045	8.192	7.237	2084.853	-0.293	34.9077
0.840	149.490	2040.304	8.190	7.019	2097.705	-0.319	34.9158
0.910	149.490	2040.304	8.155	7.007	2105.401	-0.306	34.9238
0.980	149.490	2040.214	8.110	7.101	2111.835	-0.293	34.9238
1.050	149.490	2040.045	8.092	7.204	2124.589	-0.293	34.9198
1.120	149.490	2040.047	8.092	7.296	2134.155	-0.306	34.9238
1.190	149.490	2040.437	8.107	7.393	2141.736	-0.306	34.9319
1.260	149.490	2040.566	8.118	7.449	2146.883	-0.319	34.9319
1.330	149.490	2041.346	8.118	7.462	2148.790	-0.306	34.9319
1.400	149.490	2040.176	8.104	7.504	2149.068	-0.293	34.9238
1.470	149.490	2040.566	8.081	7.543	2153.235	-0.306	34.9279
1.540	149.490	2040.828	8.089	7.574	2152.600	-0.306	34.9279
1.610	149.490	2040.829	8.089	7.601	2154.505	-0.306	34.9319
1.680	149.490	2041.608	8.081	7.626	2147.519	-0.306	34.9319
1.750	149.490	2040.439	8.065	7.643	2155.139	-0.293	34.9198
1.820	149.490	2040.051	8.092	7.665	2167.183	-0.306	34.9279
1.890	149.490	2040.180	8.118	7.707	2178.568	-0.319	34.9279

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.13	3.1921E 06	9.7296E 05	0.305	10.17	1133.5	0.11787E 07	0.3048	1.000	RUN NO. 90
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.7296E 05	9.7296E 05	1.000	149.49	2040.3	515.49	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	6	0.262	0.2311	0.2311	0.2640	0.2787	39	214	0.284	0.0000	0.0000	0.0000	0.0000
2	7	0.263	0.2014	0.2014	0.2301	0.2429	40	215	0.261	0.0008	0.0008	0.0009	0.0009
3	8	0.263	0.1649	0.1649	0.1884	0.1989	41	216	0.259	-0.0023	-0.0023	-0.0026	-0.0027
4	9	0.263	0.1331	0.1331	0.1521	0.1605	42	217	0.259	-0.0016	-0.0016	-0.0018	-0.0019
5	10	0.263	0.1086	0.1086	0.1241	0.1310	43	218	0.258	-0.0013	-0.0013	-0.0015	-0.0016
6	11	0.263	0.0877	0.0877	0.1002	0.1058	44	219	0.258	-0.0013	-0.0013	-0.0015	-0.0016
7	12	0.263	0.0756	0.0756	0.0864	0.0912	45	220	0.258	-0.0013	-0.0013	-0.0014	-0.0015
8	13	0.263	0.0623	0.0623	0.0712	0.0752	46	306	0.284	-0.0000	-0.0000	-0.0000	-0.0000
9	14	0.263	0.0570	0.0570	0.0651	0.0688	47	307	0.266	0.0522	0.0522	0.0597	0.0630
10	15	0.263	0.0526	0.0525	0.0601	0.0634	48	308	0.265	0.0518	0.0518	0.0592	0.0625
11	16	0.263	0.0546	0.0545	0.0624	0.0658	49	309	0.264	0.0455	0.0455	0.0521	0.0550
12	17	0.264	0.0595	0.0595	0.0680	0.0717	50	310	0.264	0.0425	0.0425	0.0485	0.0512
13	18	0.265	0.0642	0.0642	0.0734	0.0775	51	311	0.284	-0.0000	-0.0000	-0.0000	-0.0000
14	19	0.266	0.0641	0.0641	0.0733	0.0774	52	312	0.262	0.0228	0.0228	0.0261	0.0275
15	20	0.265	0.0657	0.0657	0.0751	0.0793	53	313	0.261	0.0124	0.0124	0.0141	0.0149
16	21	0.266	0.0696	0.0696	0.0795	0.0840	54	314	0.261	0.0031	0.0031	0.0035	0.0037
17	22	0.266	0.0704	0.0704	0.0805	0.0850	55	315	0.260	-0.0003	-0.0003	-0.0004	-0.0004
18	23	0.266	0.0725	0.0725	0.0829	0.0876	56	316	0.259	-0.0006	-0.0006	-0.0007	-0.0007
19	24	0.266	0.0766	0.0765	0.0875	0.0924	57	317	0.259	-0.0008	-0.0008	-0.0009	-0.0010
20	25	0.265	0.0753	0.0753	0.0860	0.0908	58	318	0.259	-0.0007	-0.0007	-0.0008	-0.0008
21	103	0.269	0.0728	0.0728	0.0832	0.0879	59	319	0.258	-0.0009	-0.0009	-0.0010	-0.0010
22	105	0.271	0.0716	0.0715	0.0819	0.0865	60	320	0.258	-0.0009	-0.0009	-0.0010	-0.0011
23	107	0.270	0.0703	0.0703	0.0804	0.0849	61	506	0.265	0.0456	0.0456	0.0521	0.0550
24	108	0.269	0.0649	0.0649	0.0743	0.0785	62	507	0.265	0.0468	0.0468	0.0535	0.0565
25	110	0.267	0.0526	0.0525	0.0601	0.0635	63	508	0.264	0.0485	0.0485	0.0554	0.0585
26	111	0.267	0.0448	0.0448	0.0513	0.0541	64	509	0.262	0.0446	0.0446	0.0509	0.0538
27	112	0.266	0.0318	0.0318	0.0364	0.0384	65	510	0.263	0.0381	0.0381	0.0435	0.0459
28	113	0.265	0.0200	0.0200	0.0228	0.0241	66	511	0.263	0.0359	0.0359	0.0410	0.0433
29	114	0.263	0.0069	0.0069	0.0079	0.0083	67	512	0.262	0.0268	0.0268	0.0306	0.0324
30	115	0.262	0.0016	0.0015	0.0019	0.0020	68	513	0.262	0.0173	0.0173	0.0197	0.0208
31	203	0.267	0.0661	0.0661	0.0756	0.0798	69	514	0.261	0.0043	0.0043	0.0049	0.0051
32	205	0.268	0.0649	0.0649	0.0743	0.0784	70	515	0.260	0.0000	0.0000	0.0000	0.0000
33	207	0.267	0.0628	0.0628	0.0719	0.0759	71	601	0.260	-0.0000	-0.0000	-0.0000	-0.0000
34	208	0.267	0.0590	0.0590	0.0675	0.0713	72	602	0.259	-0.0000	-0.0000	-0.0000	-0.0000
35	210	0.265	0.0469	0.0469	0.0536	0.0566	73	603	0.259	-0.0000	-0.0000	-0.0000	-0.0000
36	211	0.265	0.0402	0.0402	0.0459	0.0485	74	604	0.258	-0.0000	-0.0000	-0.0000	-0.0000
37	212	0.264	0.0287	0.0287	0.0328	0.0347	75	605	0.257	0.0000	0.0000	0.0000	0.0000
38	213	0.264	-0.0001	-0.0001	-0.0001	-0.0001							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	9.7296E 05	9.7296E 05	1.000	15.17	1133.5	0.1148?E 07	0.3048	1.000	RUN NO. 90
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	9.7296E 05	9.7296E 05	1.000	149.49	2040.3	515.49	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	6	313.2	563.8	2.829	2.492	12.241	10.786	8.8554E-04	9.3477E-04	0.359
2	7	313.3	564.0	2.465	2.172	12.240	10.785	7.7179E-04	8.1470E-04	0.349
3	8	313.5	564.3	2.018	1.778	12.237	10.782	6.3199E-04	6.6714E-04	0.325
4	9	313.6	564.5	1.629	1.435	12.236	10.781	5.1011E-04	5.3849E-04	0.288
5	10	313.7	564.7	1.329	1.171	12.234	10.780	4.1635E-04	4.3951E-04	0.237
6	11	313.7	564.7	1.073	0.945	12.234	10.780	3.3610E-04	3.5480E-04	0.193
7	12	313.9	565.0	0.925	0.815	12.231	10.777	2.8979E-04	3.0591E-04	0.133
8	13	314.2	565.6	0.762	0.671	12.226	10.773	2.3887E-04	2.5217E-04	0.067
9	14	314.3	565.7	0.697	0.614	12.225	10.772	2.1844E-04	2.3060E-04	0.010
10	15	314.3	565.8	0.643	0.567	12.225	10.772	2.0158E-04	2.1281E-04	0.011
11	16	314.5	566.0	0.667	0.588	12.223	10.770	2.0916E-04	2.2081E-04	0.061
12	17	315.3	567.6	0.726	0.640	12.210	10.759	2.2792E-04	2.4063E-04	0.135
13	18	316.6	569.9	0.783	0.690	12.191	10.742	2.4630E-04	2.6006E-04	0.142
14	19	317.0	570.6	0.781	0.688	12.185	10.737	2.4574E-04	2.5947E-04	0.143
15	20	316.9	570.4	0.801	0.705	12.187	10.738	2.5184E-04	2.6591E-04	0.153
16	21	317.1	570.8	0.848	0.747	12.183	10.735	2.6669E-04	2.8160E-04	0.169
17	22	317.4	571.3	0.857	0.755	12.179	10.732	2.6983E-04	2.8492E-04	0.167
18	23	317.4	571.3	0.883	0.778	12.180	10.732	2.7809E-04	2.9364E-04	0.168
19	24	317.9	572.2	0.932	0.821	12.172	10.725	2.9356E-04	3.0998E-04	0.189
20	25	316.9	570.4	0.917	0.808	12.187	10.739	2.8850E-04	3.0462E-04	0.171
21	103	321.7	579.0	0.882	0.777	12.116	10.676	2.7905E-04	2.9474E-04	0.178
22	105	323.0	581.4	0.866	0.763	12.097	10.659	2.7461E-04	2.9008E-04	0.170
23	107	322.2	579.9	0.851	0.750	12.109	10.670	2.6953E-04	2.8470E-04	0.167
24	109	320.7	577.3	0.788	0.694	12.130	10.688	2.4906E-04	2.6305E-04	0.074
25	110	319.2	574.5	0.639	0.563	12.153	10.708	2.0164E-04	2.1294E-04	0.006
26	111	318.5	573.3	0.545	0.481	12.163	10.717	1.7193E-04	1.8155E-04	0.062
27	112	317.1	570.8	0.388	0.342	12.184	10.736	1.2210E-04	1.2893E-04	0.246
28	113	316.0	568.8	0.244	0.215	12.200	10.750	7.6619E-05	8.0895E-05	0.377
29	114	314.2	565.6	0.085	0.074	12.226	10.773	2.6504E-05	2.7980E-05	0.485
30	115	312.7	562.9	0.020	0.018	12.249	10.793	6.3090E-06	6.6595E-06	0.225
31	203	318.6	573.5	0.804	0.708	12.162	10.716	2.5349E-04	2.6768E-04	0.153
32	205	319.5	575.2	0.789	0.695	12.147	10.704	2.4898E-04	2.6294E-04	0.148
33	207	319.1	574.3	0.764	0.673	12.155	10.710	2.4093E-04	2.5443E-04	0.153
34	208	318.2	572.7	0.718	0.633	12.168	10.721	2.2636E-04	2.3903E-04	0.067
35	210	316.8	570.2	0.572	0.504	12.189	10.740	1.7989E-04	1.8994E-04	-0.013
36	211	316.2	569.1	0.490	0.432	12.198	10.748	1.5403E-04	1.6263E-04	0.074
37	212	315.1	567.1	0.351	0.309	12.214	10.762	1.1014E-04	1.1628E-04	0.282
38	213	338.7	609.7	-0.001	-0.001	11.864	10.454	-2.0555E-07	-2.1740E-07	1.246
39	214	338.7	609.7	0.000	0.000	11.864	10.454	2.0036E-16	2.1190E-16	*******
40	215	311.7	561.1	0.010	0.008	12.263	10.805	2.9917E-06	3.1577E-06	0.661
41	216	308.8	555.8	-0.028	-0.025	12.307	10.844	-8.6617E-06	-9.1404E-06	-0.157
42	217	308.7	555.7	-0.020	-0.017	12.308	10.845	-6.0957E-06	-6.4326E-06	-0.059
43	218	308.2	554.7	-0.016	-0.015	12.316	10.852	-5.1321E-06	-5.4155E-06	-0.146
44	219	308.0	554.5	-0.016	-0.014	12.318	10.854	-5.0075E-06	-5.2839E-06	-0.210
45	220	307.8	554.1	-0.016	-0.014	12.322	10.857	-4.8574E-06	-5.1255E-06	0.121
46	305	338.7	609.7	-0.000	-0.000	11.864	10.454	-2.4699E-08	-2.6122E-08	3.035
47	307	317.3	571.1	0.636	0.560	12.181	10.734	2.0020E-04	2.1139E-04	0.088
48	308	316.3	569.3	0.631	0.556	12.196	10.746	1.9844E-04	2.0952E-04	-0.050
49	309	315.4	567.7	0.555	0.490	12.209	10.758	1.7458E-04	1.8431E-04	-0.154
50	310	314.9	566.9	0.519	0.457	12.216	10.764	1.6281E-04	1.7188E-04	-0.087
51	311	338.7	609.7	-0.000	-0.000	11.864	10.454	-1.5416E-07	-1.6304E-07	1.054
52	312	312.5	562.5	0.280	0.247	12.252	10.796	8.7556E-05	9.2418E-05	0.341
53	313	311.6	560.9	0.152	0.134	12.265	10.807	4.7467E-05	5.0101E-05	0.527
54	314	311.2	560.1	0.038	0.034	12.272	10.813	1.1889E-05	1.2548E-05	0.958
55	315	310.3	558.5	-0.034	-0.003	12.284	10.824	-1.2352E-06	-1.3036E-06	-3.092
56	316	309.6	557.3	-0.007	-0.006	12.295	10.833	-2.2190E-06	-2.3418E-06	-2.037
57	317	309.3	556.2	-0.010	-0.009	12.304	10.841	-3.0410E-06	-3.2091E-06	-0.719
58	318	308.7	555.7	-0.008	-0.007	12.308	10.845	-2.5422E-06	-2.6827E-06	-0.572
59	319	308.4	555.2	-0.011	-0.009	12.313	10.849	-3.3389E-06	-3.5234E-06	-0.206
60	320	308.3	554.9	-0.011	-0.010	12.314	10.851	-3.3634E-06	-3.5492E-06	-0.057
61	506	316.7	570.0	0.555	0.489	12.190	10.741	1.7467E-04	1.8443E-04	-0.014
62	507	315.9	568.6	0.571	0.503	12.202	10.751	1.7937E-04	1.8938E-04	-0.003
63	508	314.6	566.3	0.593	0.522	12.220	10.768	1.8597E-04	1.9633E-04	-0.105
64	509	313.1	563.5	0.546	0.481	12.244	10.788	1.7086E-04	1.8336E-04	-0.172
65	510	313.8	564.9	0.466	0.410	12.232	10.778	1.4595E-04	1.5407E-04	-0.147
66	511	313.7	564.7	0.439	0.387	12.234	10.780	1.3750E-04	1.4515E-04	-0.053
67	512	313.1	563.6	0.328	0.289	12.243	10.788	1.0280E-04	1.0852E-04	0.272
68	513	312.5	562.4	0.211	0.186	12.253	10.796	6.6120E-05	6.9782E-05	0.485
69	514	311.4	560.5	0.052	0.046	12.268	10.810	1.6292E-05	1.7195E-05	0.915
70	515	310.4	558.7	0.000	0.000	12.283	10.823	4.9993E-08	5.2788E-08	53.023
71	501	310.2	558.3	-0.000	-0.000	12.286	10.826	-0.0000E-39	-0.0000E-39	199.533
72	502	309.5	557.0	-0.000	-0.000	12.297	10.835	-0.0000E-39	-0.0000E-39	8.056
73	503	308.6	555.6	-0.000	-0.000	12.309	10.846	-0.0000E-39	-0.0000E-39	0.972
74	504	308.1	554.5	-0.000	-0.000	12.318	10.854	-0.0000E-39	-0.0000E-39	-42.001
75	505	307.2	553.0	0.000	0.000	12.330	10.864	0.0000E-39	0.0000E-39	1.607

FREE-STREAM DENSITY-VELOCITY PRODUCT = 2.6287E-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

Run 90

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	7.812	8.118	7.707
PT2/PT1	5.226E-02	5.431E-02	5.156E-02
TEMP(DEG R)	2096.4	2178.6	2225.1
TT2/TT1	1.0275	1.0678	1.0906

OF POOR QUALITY
ORIGINAL PAGE IS

359

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 91 FRAME 26 TO 51 CONSTANT SET 582

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.2008E 07		304.52	2024.57	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.523	2023.532	0.312	0.377	738.932	-0.293	17.3873
0.070	304.340	2023.664	0.304	0.394	738.932	-0.306	17.6052
0.140	304.523	2023.663	0.304	0.514	742.639	-0.293	17.6092
0.210	304.523	2024.447	0.315	1.478	758.282	-0.293	17.6092
0.280	304.706	2023.793	0.399	4.088	850.506	-0.280	17.2420
0.350	304.523	2023.532	1.461	7.316	1355.906	-0.280	17.4115
0.420	304.340	2023.010	5.121	9.909	1816.345	-0.319	17.3994
0.490	304.706	2023.532	9.824	12.678	1949.139	-0.306	17.5769
0.560	304.523	2024.568	12.780	14.643	2012.250	-0.306	17.3631
0.630	304.706	2024.436	14.373	15.385	2062.927	-0.293	17.3025
0.700	304.706	2023.916	15.429	15.355	2096.422	-0.293	17.5164
0.770	304.523	2024.043	15.892	14.951	2113.085	-0.319	34.8956
0.840	304.340	2023.393	15.887	14.573	2109.244	-0.306	34.8795
0.910	304.52	2024.565	15.718	14.487	2133.518	-0.319	34.6172
0.980	304.889	2024.954	15.601	14.607	2141.159	-0.293	34.9117
1.050	304.706	2024.043	15.561	14.774	2132.881	-0.306	34.9279
1.120	304.523	2024.301	15.545	14.968	2130.968	-0.319	34.9198
1.190	304.523	2024.174	15.548	15.152	2145.612	-0.319	34.9279
1.260	304.706	2024.693	15.572	15.263	2157.600	-0.319	34.9279
1.330	304.889	2025.344	15.598	15.341	2148.790	-0.293	34.9198
1.400	304.889	2024.301	15.596	15.405	2153.235	-0.293	34.9238
1.470	304.706	2024.429	15.575	15.441	2155.139	-0.319	34.9238
1.540	304.523	2024.301	15.561	15.496	2134.792	-0.319	34.9238
1.610	304.706	2025.080	15.522	15.544	2150.060	-0.319	34.9279
1.680	304.889	2025.601	15.535	15.580	2160.848	-0.306	34.9198
1.750	304.889	2024.815	15.522	15.644	2150.060	-0.293	34.9238

360

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5882E 06	2.0081E 06	0.305	20.72	1124.8	0.11886E 07	0.3048	1.000	RUN NO. 91
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0081E 06	2.0081E 06	1.000	304.52	2024.6	511.13	1.0000	1.000	

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.263	0.3131	0.3131	0.3578	0.3777	39	319	0.259	0.0090	0.0090	0.0103	0.0109
2	2	0.264	0.3182	0.3182	0.3636	0.3839	40	320	0.258	0.0025	0.0025	0.0028	0.0030
3	3	0.264	0.3135	0.3135	0.3583	0.3782	41	406	0.262	0.2893	0.2893	0.3304	0.3488
4	4	0.263	0.3231	0.3231	0.3692	0.3897	42	407	0.264	0.2865	0.2865	0.3274	0.3457
5	5	0.264	0.3274	0.3274	0.3742	0.3950	43	408	0.261	0.2537	0.2537	0.2898	0.3059
6	6	0.264	0.3348	0.3348	0.3826	0.4039	44	409	0.261	0.2291	0.2291	0.2617	0.2762
7	7	0.264	0.3498	0.3498	0.3998	0.4221	45	410	0.261	0.2025	0.2025	0.2312	0.2441
8	8	0.264	0.3513	0.3513	0.4015	0.4239	46	411	0.261	0.1774	0.1774	0.2026	0.2138
9	9	0.263	0.3151	0.3151	0.3601	0.3801	47	412	0.260	0.1249	0.1249	0.1427	0.1506
10	10	0.263	0.3025	0.3025	0.3456	0.3648	48	413	0.260	0.0885	0.0885	0.1010	0.1066
11	11	0.263	0.2568	0.2568	0.2934	0.3098	49	414	0.258	0.0384	0.0384	0.0438	0.0463
12	12	0.263	0.1965	0.1965	0.2245	0.2370	50	415	0.258	0.0163	0.0163	0.0186	0.0196
13	13	0.264	0.1363	0.1363	0.1558	0.1645	51	416	0.257	0.0061	0.0061	0.0069	0.0073
14	14	0.264	0.0971	0.0971	0.1110	0.1172	52	417	0.256	-0.0031	-0.0031	-0.0035	-0.0037
15	15	0.264	0.0716	0.0716	0.0818	0.0864	53	418	0.255	0.0005	0.0005	0.0006	0.0006
16	103	0.267	0.3300	0.3300	0.3773	0.3985	54	419	0.256	0.0015	0.0015	0.0018	0.0019
17	105	0.268	0.3226	0.3226	0.3690	0.3897	55	420	0.256	-0.0008	-0.0008	-0.0009	-0.0009
18	107	0.267	0.3132	0.3132	0.3582	0.3782	56	506	0.263	0.2818	0.2818	0.3220	0.3399
19	108	0.267	0.3044	0.3044	0.3481	0.3676	57	507	0.262	0.2718	0.2718	0.3106	0.3278
20	110	0.265	0.2715	0.2715	0.3104	0.3277	58	508	0.262	0.2632	0.2632	0.3007	0.3174
21	111	0.265	0.2430	0.2430	0.2778	0.2933	59	509	0.261	0.2361	0.2361	0.2697	0.2847
22	112	0.264	0.1897	0.1897	0.2168	0.2289	60	510	0.261	0.2192	0.2192	0.2504	0.2642
23	113	0.263	0.1314	0.1314	0.1501	0.1585	61	511	0.260	0.2096	0.2096	0.2394	0.2526
24	114	0.262	0.0506	0.0506	0.0578	0.0610	62	512	0.259	0.1727	0.1727	0.1972	0.2081
25	115	0.261	0.0129	0.0129	0.0148	0.0156	63	513	0.258	0.1425	0.1425	0.1627	0.1716
26	306	0.286	0.0000	0.0000	0.0000	0.0000	64	514	0.256	0.0742	0.0742	0.0847	0.0893
27	307	0.266	0.3056	0.3056	0.3493	0.3689	65	515	0.257	0.0417	0.0417	0.0476	0.0502
28	308	0.265	0.3064	0.3064	0.3503	0.3698	66	516	0.256	0.0261	0.0261	0.0298	0.0315
29	309	0.264	0.2974	0.2974	0.3399	0.3589	67	517	0.257	0.0141	0.0141	0.0161	0.0169
30	310	0.264	0.2895	0.2895	0.3309	0.3493	68	518	0.257	0.0086	0.0086	0.0098	0.0103
31	311	0.286	-0.0001	-0.0001	-0.0001	-0.0001	69	519	0.257	0.0070	0.0070	0.0080	0.0085
32	312	0.262	0.2284	0.2284	0.2610	0.2755	70	520	0.256	0.0060	0.0060	0.0068	0.0072
33	313	0.262	0.1876	0.1876	0.2144	0.2263	71	601	0.259	0.0000	0.0000	0.0000	0.0000
34	314	0.261	0.1225	0.1225	0.1400	0.1477	72	602	0.258	-0.0000	-0.0000	-0.0000	-0.0000
35	315	0.260	0.0752	0.0752	0.0858	0.0906	73	603	0.257	0.0000	0.0000	0.0000	0.0000
36	316	0.260	0.0476	0.0476	0.0544	0.0574	74	604	0.256	0.0000	0.0000	0.0000	0.0000
37	317	0.259	0.0284	0.0284	0.0324	0.0342	75	605	0.255	0.0000	0.0000	0.0000	0.0000
38	318	0.259	0.0160	0.0160	0.0183	0.0193							

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.5882E 06	2.0081E 06	0.305	20.72	1124.8	0.11886E 07	0.3048	1.000	RUN NO. 91
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0081E 06	2.0081E 06	1.000	304.52	2024.6	511.13	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	311.4	560.5	5.420	4.776	17.311	15.253	8.3611E-04	8.8264E-04	0.359
2	2	311.9	561.3	5.506	4.851	17.301	15.245	8.4983E-04	8.9716E-04	0.352
3	3	311.9	561.5	5.424	4.779	17.300	15.243	8.3727E-04	8.8391E-04	0.358
4	4	311.8	561.3	5.590	4.925	17.302	15.245	8.6277E-04	9.1082E-04	0.351
5	5	312.2	561.9	5.662	4.989	17.295	15.239	8.7439E-04	9.2311E-04	0.347
6	6	312.2	561.9	5.789	5.101	17.295	15.239	8.9400E-04	9.4381E-04	0.359
7	7	312.6	562.7	6.047	5.328	17.286	15.231	9.3426E-04	9.8635E-04	0.376
8	8	312.9	563.3	6.070	5.348	17.279	15.225	9.3820E-04	9.9052E-04	0.388
9	9	311.8	561.3	5.452	4.804	17.302	15.246	8.4144E-04	8.8830E-04	0.343
10	10	311.1	560.1	5.237	4.615	17.316	15.258	8.0769E-04	8.5263E-04	0.339
11	11	311.4	560.6	4.445	3.917	17.310	15.252	6.8580E-04	7.2397E-04	0.312
12	12	311.7	561.0	3.400	2.996	17.305	15.248	5.2464E-04	5.5386E-04	0.242
13	13	312.2	562.0	2.358	2.077	17.293	15.237	3.6409E-04	3.8437E-04	0.158
14	14	312.9	563.2	1.678	1.479	17.279	15.226	2.5937E-04	2.7384E-04	0.028
15	15	312.7	562.9	1.237	1.090	17.283	15.229	1.9115E-04	2.0181E-04	-0.018
16	103	316.2	569.1	5.679	5.004	17.210	15.165	8.8156E-04	9.3096E-04	0.360
17	105	316.9	570.5	5.547	4.888	17.194	15.150	8.6201E-04	9.1035E-04	0.357
18	107	316.4	569.4	5.389	4.748	17.206	15.161	8.3674E-04	8.8364E-04	0.350
19	108	315.6	568.0	5.243	4.620	17.222	15.175	8.1322E-04	8.5874E-04	0.323
20	110	314.1	565.4	4.685	4.128	17.254	15.203	7.2526E-04	7.6577E-04	0.236
21	111	313.6	564.5	4.195	3.696	17.264	15.212	6.4903E-04	6.8526E-04	0.236
22	112	312.6	562.6	3.280	2.890	17.286	15.231	5.0673E-04	5.3498E-04	0.323
23	113	311.7	561.1	2.274	2.003	17.304	15.247	3.5090E-04	3.7044E-04	0.431
24	114	310.2	558.4	0.877	0.773	17.336	15.275	1.3504E-04	1.4254E-04	0.564
25	115	308.8	555.9	0.225	0.198	17.365	15.301	3.4555E-05	3.6471E-05	0.577
26	306	338.7	609.7	0.000	0.000	16.734	14.745	1.5176E-16	1.6054E-16	*******
27	307	314.4	565.9	5.270	4.644	17.247	15.197	8.1624E-04	8.6186E-04	0.345
28	308	313.6	564.4	5.291	4.662	17.265	15.213	8.1851E-04	8.6420E-04	0.325
29	309	312.8	563.1	5.139	4.528	17.280	15.226	7.9427E-04	8.3856E-04	0.274
30	310	312.3	562.1	5.006	4.411	17.292	15.237	7.7320E-04	8.1629E-04	0.268
31	311	338.7	609.7	-0.002	-0.001	16.735	14.746	-2.5406E-07	-2.6876E-07	1.244
32	312	310.4	558.8	3.959	3.488	17.331	15.271	6.0993E-04	6.4383E-04	0.336
33	313	310.1	558.2	3.253	2.867	17.338	15.277	5.0102E-04	5.2885E-04	0.386
34	314	309.0	556.2	2.128	1.875	17.361	15.298	3.2718E-04	3.4534E-04	0.399
35	315	308.0	554.4	1.306	1.151	17.383	15.317	2.0065E-04	2.1176E-04	0.405
36	316	307.3	553.2	0.828	0.730	17.397	15.329	1.2707E-04	1.3410E-04	0.397
37	317	306.6	551.8	0.494	0.435	17.413	15.343	7.5748E-05	7.9936E-05	0.418
38	318	306.4	551.6	0.279	0.246	17.416	15.346	4.2730E-05	4.5092E-05	0.428
39	319	306.2	551.1	0.157	0.139	17.422	15.351	2.4102E-05	2.5434E-05	0.550
40	320	305.8	550.5	0.043	0.038	17.429	15.357	6.6369E-06	7.0035E-06	0.618
41	406	309.7	557.5	5.017	4.421	17.346	15.284	7.7233E-04	8.1522E-04	0.324
42	407	312.9	563.2	4.950	4.362	17.279	15.225	7.6516E-04	8.0783E-04	0.475
43	408	309.4	557.0	4.403	3.879	17.353	15.290	6.7744E-04	7.1505E-04	0.267
44	409	309.0	556.2	3.977	3.505	17.361	15.298	6.1167E-04	6.4560E-04	0.238
45	410	308.8	555.9	3.516	3.098	17.365	15.301	5.4052E-04	5.7050E-04	0.249
46	411	308.8	555.8	3.080	2.714	17.366	15.302	4.7358E-04	4.9984E-04	0.273
47	412	308.0	554.3	2.171	1.913	17.384	15.317	3.3348E-04	3.5195E-04	0.374
48	413	307.4	553.3	1.539	1.356	17.396	15.329	2.3619E-04	2.4926E-04	0.436
49	414	305.8	550.5	0.669	0.590	17.429	15.357	1.0250E-04	1.0816E-04	0.481
50	415	304.9	548.8	0.285	0.251	17.449	15.375	4.3523E-05	4.5924E-05	0.549
51	416	303.6	546.6	0.106	0.094	17.475	15.398	1.6224E-05	1.7118E-05	1.738
52	417	302.5	544.6	-0.054	-0.048	17.499	15.419	-8.2880E-06	-8.7437E-06	-0.410
53	418	301.8	543.2	0.009	0.008	17.515	15.433	1.4266E-06	1.5050E-06	5.516
54	419	302.9	545.2	0.027	0.024	17.491	15.412	4.1300E-06	4.3572E-06	3.133
55	420	303.2	545.7	-0.014	-0.012	17.485	15.407	-2.0957E-06	-2.2110E-06	-4.243
56	506	311.0	559.7	4.881	4.301	17.320	15.261	7.5251E-04	7.9437E-04	0.321
57	507	310.4	558.7	4.711	4.151	17.332	15.272	7.2587E-04	7.6621E-04	0.309
58	508	310.1	558.2	4.564	4.021	17.338	15.277	7.0284E-04	7.4189E-04	0.291
59	509	309.2	556.6	4.099	3.612	17.357	15.294	6.3051E-04	6.6550E-04	0.263
60	510	308.9	556.1	3.806	3.353	17.363	15.299	5.8521E-04	6.1768E-04	0.274
61	511	308.2	554.7	3.643	3.210	17.380	15.314	5.5953E-04	5.9053E-04	0.295
62	512	306.6	551.9	3.007	2.650	17.413	15.343	4.6103E-04	4.8652E-04	0.388
63	513	304.9	548.8	2.487	2.191	17.449	15.375	3.8034E-04	4.0132E-04	0.529
64	514	302.4	544.3	1.299	1.144	17.502	15.421	1.9860E-04	2.0889E-04	0.583
65	515	303.6	546.5	0.729	0.643	17.476	15.399	1.1136E-04	1.1749E-04	0.505
66	516	303.4	546.2	0.457	0.402	17.480	15.402	6.9729E-05	7.3568E-05	0.590
67	517	303.6	546.5	0.246	0.217	17.476	15.399	3.7551E-05	3.9619E-05	0.632
68	518	303.6	546.5	0.150	0.132	17.476	15.399	2.2857E-05	2.4116E-05	0.770
69	519	303.7	546.7	0.123	0.108	17.473	15.396	1.8751E-05	1.9784E-05	1.065
70	520	303.3	545.9	0.105	0.092	17.483	15.405	1.5981E-05	1.6860E-05	1.192
71	601	306.6	551.8	0.000	0.000	17.413	15.343	0.0000E-39	0.0000E-39	*******
72	602	305.2	549.3	-0.000	-0.000	17.443	15.369	-0.0000E-39	-0.0000E-39	*******
73	603	304.0	547.2	0.000	0.000	17.467	15.391	0.0000E-39	0.0000E-39	-13.422
74	604	303.4	546.1	0.000	0.000	17.480	15.402	0.0000E-39	0.0000E-39	-14.707
75	605	302.2	544.0	0.000	0.000	17.505	15.424	0.0000E-39	0.0000E-39	-4.669

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.3861E-01 (SLUGS/FT2-SEC)

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.282	15.522	15.644
PT2/PT1	5.347E-02	5.097E-02	5.137E-02
TEMP(DEG R)	2109.2	2150.1	2206.3
TT2/TT1	1.0418	1.0620	1.0898

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***
3.5 FT. HT DATA TEST NO. 182 RUN NO. 92 FRAME 26 TO 51 CONSTANT SET 583

REF1	REF2	REF3	A B C	MACH	RE/FT		PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0 0 8 1	5.10	0.1943E 07		305.44	2068.22	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IA POS
0.000	305.437	2068.747	0.253	0.371	761.938	-0.286	17.2282
0.070	305.255	2068.878	0.250	0.391	764.673	-0.312	17.5994
0.140	305.255	2068.617	0.290	0.521	768.312	-0.312	17.5025
0.210	305.437	2069.645	0.258	1.386	779.173	-0.312	17.3936
0.280	305.437	2068.349	0.385	4.026	884.610	-0.299	17.2604
0.350	305.255	2068.219	1.457	7.318	1359.643	-0.299	17.2604
0.420	304.706	2067.964	5.173	9.972	1793.871	-0.325	17.3694
0.490	305.255	2067.833	9.834	12.844	1961.695	-0.325	17.4017
0.560	305.437	2068.743	12.774	14.862	2031.153	-0.325	17.3532
0.630	305.437	2068.354	14.452	15.573	2095.780	-0.299	17.5227
0.700	305.437	2067.701	15.632	15.518	2121.396	-0.299	17.3895
0.770	305.437	2067.443	16.080	15.073	2148.790	-0.325	31.4706
0.840	305.437	2067.571	16.037	14.684	2160.848	-0.299	34.8719
0.910	305.437	2068.222	15.844	14.595	2161.482	-0.325	34.9203
0.980	305.620	2068.215	15.722	14.759	2160.848	-0.312	34.7509
1.050	305.437	2067.445	15.648	14.990	2156.409	-0.312	34.9122
1.120	305.255	2067.571	15.640	15.204	2150.060	-0.325	34.8921
1.190	305.255	2067.697	15.651	15.351	2165.917	-0.325	34.8316
1.260	305.437	2068.084	15.675	15.462	2175.408	-0.325	34.8759
1.330	305.620	2068.212	15.709	15.559	2194.340	-0.299	34.9122
1.400	305.620	2066.788	15.722	15.623	2188.037	-0.299	34.9203
1.470	305.255	2066.392	15.712	15.698	2179.831	-0.325	34.7589
1.540	305.437	2066.781	15.698	15.721	2169.082	-0.325	34.8679
1.610	305.255	2067.170	15.675	15.740	2172.246	-0.325	34.9203
1.680	305.437	2067.166	15.653	15.768	2177.936	-0.312	34.9122
1.750	305.255	2066.785	15.659	15.796	2177.936	-0.299	34.9163

NATIONAL AERONALTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.3739E C6	1.9428E C6 0.305	20.78	1149.0	0.12168E 07	0.3048	1.000	RUN NO.	92
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	1.9428E C6	1.9428E 06 1.000	3C5.44	2068.2	523.24	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	C.260	C.3068	0.3068	0.3503	0.3697	39	319	0.255	0.0112	0.0112	0.0127	0.0134
2	2	C.260	C.3146	0.3146	0.3593	C.3792	40	320	0.254	0.0047	0.0047	0.0053	0.0056
3	3	0.260	C.3141	0.3141	0.3587	C.3786	41	406	0.258	0.2865	0.2865	0.3271	0.3452
4	4	0.260	0.3234	0.3234	0.3693	C.3898	42	407	0.261	0.2953	0.2953	0.3373	0.3560
5	5	0.260	0.3162	0.3162	0.3611	0.3811	43	408	0.258	0.3152	0.3152	0.3598	0.3797
6	6	C.260	C.3153	0.3153	C.3601	0.3800	44	409	0.257	0.3139	0.3139	0.3583	0.3780
7	7	0.260	C.3147	0.3147	0.3594	C.3794	45	410	0.257	0.2900	0.2900	0.3310	0.3493
8	8	0.261	0.3088	0.3088	0.3527	0.3722	46	411	0.257	0.2619	0.2619	0.2989	0.3154
9	9	C.260	0.2721	0.2721	0.3107	0.3279	47	412	0.256	0.1854	0.1854	0.2116	0.2233
10	10	C.259	C.2534	0.2534	0.2894	C.3C54	48	413	0.256	0.1292	0.1292	0.1474	0.1555
11	11	0.260	C.1933	0.1933	0.2207	C.2329	49	414	0.255	0.0581	0.0581	0.0663	0.0700
12	12	0.260	0.1358	0.1358	0.1551	0.1637	50	415	0.253	0.0316	0.0316	0.0360	0.0380
13	13	C.261	0.0956	0.0956	0.1092	0.1152	51	416	0.252	0.0183	0.0183	0.0209	0.0220
14	14	C.261	C.0706	0.0706	0.0807	C.0852	52	417	0.251	0.0099	0.0099	0.0113	0.0119
15	15	0.261	C.0565	0.0565	0.0645	C.0681	53	418	0.251	0.0052	0.0052	0.0060	0.C063
16	103	0.264	C.3092	0.3092	0.3533	0.3730	54	419	0.252	0.0026	0.0026	0.0029	0.0031
17	105	C.265	0.3122	0.3122	0.3569	0.3768	55	420	0.252	-0.0005	-0.0005	-0.0006	-0.0006
18	107	0.265	0.3381	0.3381	0.3864	C.4080	56	506	0.259	0.2774	0.2774	0.3167	0.3343
19	108	0.264	0.3624	0.3624	0.4141	0.4372	57	507	0.259	0.2768	0.2768	0.3160	0.3334
20	110	0.262	0.3239	0.3239	0.3701	0.3907	58	508	0.259	0.2955	0.2955	0.3373	0.3560
21	111	0.262	0.2847	0.2847	0.3252	0.3433	59	509	0.258	0.2860	0.2860	0.3265	0.3445
22	112	0.261	0.2108	0.2108	0.2407	0.2541	60	510	0.258	0.2704	0.2704	0.3087	0.3257
23	113	0.260	0.1348	0.1348	0.1539	0.1625	61	511	0.257	0.2606	0.2606	0.2975	0.3139
24	114	0.259	0.0469	0.0469	0.0535	0.0565	62	512	0.255	0.2165	0.2165	0.2470	0.2605
25	115	0.258	0.0126	0.0126	0.0144	0.0151	63	513	0.253	0.1714	0.1714	0.1955	0.2062
26	306	0.280	0.0000	0.0000	0.0000	0.0000	64	514	0.251	0.0944	0.0944	0.1077	0.1135
27	307	0.262	C.3088	0.3088	0.3528	0.3724	65	515	0.253	0.0565	0.0565	0.0644	0.0679
28	308	0.262	0.3515	0.3515	0.4015	0.4238	66	516	0.253	0.0395	0.0395	0.0451	0.0476
29	309	0.261	0.3468	0.3468	0.3962	0.4181	67	517	0.252	0.0272	0.0272	0.0310	0.0327
30	310	0.260	0.3356	0.3356	0.3833	0.4045	68	518	0.252	0.0178	0.0178	0.0203	0.0214
31	311	0.280	-0.0002	-0.0002	-0.0002	-0.0003	69	519	0.252	0.0123	0.0123	0.0140	0.0148
32	312	0.259	0.2384	0.2384	0.2721	0.2872	70	520	0.252	0.0048	0.0048	0.0055	0.0058
33	313	0.258	0.1822	0.1822	0.2080	0.2195	71	601	0.255	0.0000	0.0000	0.0000	0.0000
34	314	0.258	0.1087	0.1087	0.1241	0.1309	72	602	0.254	0.0000	0.0000	0.0000	0.0000
35	315	0.257	0.0678	0.0678	0.0774	0.0817	73	603	0.253	0.0000	0.0000	0.0000	0.0000
36	316	0.256	0.0455	0.0455	0.0519	0.0547	74	604	0.252	0.0000	0.0000	0.0000	0.0000
37	317	0.255	0.0298	0.0298	0.0340	0.0359	75	605	0.251	0.0000	0.0000	0.0000	0.0000
38	318	0.255	0.0198	0.0198	0.0226	0.0238							

ORIGINAL PAGE IS
OF POOR QUALITY

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	RHO/HT	TEST NO.	162
5.10	6.3739E 06	6.315	20.78	1149.C	0.12168E 07	0.3046	1.000	RUN NO.	92
MACH	RE/FT	REL LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	RHO/HT		
5.10	1.9428E C6	1.000	305.44	2068.2	523.24	1.0000	1.000		

CHAN	T/C	TW(DEG R)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	314.7	566.4	5.467	4.818	17.821	15.703	8.3045E-04	8.7641E-04	0.434
2	2	315.1	567.2	5.603	4.937	17.811	15.694	8.5155E-04	8.9872E-04	0.425
3	3	315.1	567.3	5.595	4.930	17.811	15.694	8.5033E-04	8.9742E-04	0.431
4	4	315.1	567.1	5.761	5.076	17.812	15.695	8.7542E-04	9.2390E-04	0.426
5	5	315.2	567.4	5.631	4.961	17.809	15.692	8.5584E-04	9.0325E-04	0.412
6	6	315.1	567.1	5.616	4.949	17.812	15.695	8.5348E-04	9.0075E-04	0.408
7	7	315.5	567.8	5.603	4.937	17.804	15.688	8.5195E-04	8.9915E-04	0.404
8	8	316.0	568.8	5.494	4.841	17.792	15.678	8.3590E-04	8.8225E-04	0.401
9	9	314.7	566.5	4.848	4.272	17.820	15.702	7.3640E-04	7.7717E-04	0.354
10	10	314.1	565.4	4.520	3.982	17.833	15.713	6.8596E-04	7.2390E-04	0.340
11	11	314.6	566.2	3.444	3.035	17.823	15.705	5.2309E-04	5.5204E-04	0.246
12	12	314.9	566.9	2.420	2.132	17.815	15.698	3.6769E-04	3.8805E-04	0.095
13	13	315.7	568.3	1.701	1.499	17.799	15.683	2.5878E-04	2.7313E-04	-0.015
14	14	316.6	569.9	1.256	1.107	17.780	15.667	1.9125E-04	2.0186E-04	-0.172
15	15	316.4	569.6	1.004	0.885	17.783	15.670	1.5290E-04	1.6138E-04	-0.206
16	103	319.7	575.5	5.476	4.825	17.713	15.608	8.3717E-04	8.8383E-04	0.389
17	105	320.9	577.5	5.523	4.867	17.690	15.587	8.4556E-04	8.9275E-04	0.395
18	107	320.4	576.8	5.484	5.272	17.698	15.595	9.1559E-04	9.6668E-04	0.417
19	108	319.4	575.0	6.421	5.658	17.719	15.613	9.8125E-04	1.0359E-03	0.333
20	110	317.9	572.2	5.751	5.067	17.753	15.643	8.7705E-04	9.2581E-04	0.114
21	111	317.4	571.4	5.057	4.456	17.762	15.651	7.7076E-04	8.1358E-04	0.177
22	112	316.2	569.2	3.749	3.303	17.788	15.673	5.7057E-04	6.0222E-04	0.394
23	113	315.3	567.5	2.400	2.115	17.808	15.691	3.6484E-04	3.8506E-04	0.484
24	114	313.5	564.4	0.836	0.737	17.845	15.724	1.2686E-04	1.3388E-04	0.523
25	115	312.0	561.6	0.225	0.198	17.877	15.752	3.4038E-05	3.5916E-05	0.460
26	306	338.7	609.7	0.000	0.000	17.312	15.254	3.2970E-16	3.4856E-16	*******
27	307	317.8	572.1	5.482	4.830	17.754	15.644	8.3597E-04	8.8244E-04	0.416
28	308	316.9	570.5	6.246	5.504	17.773	15.660	9.5149E-04	1.0043E-03	0.355
29	309	316.1	568.9	6.171	5.437	17.791	15.676	9.3894E-04	9.9101E-04	0.201
30	310	315.5	567.9	5.975	5.265	17.803	15.687	9.0845E-04	9.5879E-04	0.203
31	311	338.7	609.7	-0.004	-0.003	17.312	15.254	-5.5959E-07	-5.9160E-07	1.159
32	312	313.4	564.1	4.254	3.748	17.848	15.726	6.4510E-04	6.8074E-04	0.446
33	313	313.1	563.6	3.253	2.866	17.853	15.731	4.9313E-04	5.2037E-04	0.480
34	314	312.C	561.7	1.943	1.712	17.877	15.752	2.9418E-04	3.1041E-04	0.434
35	315	310.8	559.4	1.214	1.070	17.904	15.776	1.8350E-04	1.9360E-04	0.394
36	316	310.0	557.9	0.815	0.718	17.921	15.791	1.2298E-04	1.2975E-04	0.339
37	317	309.1	556.4	0.535	0.471	17.939	15.807	8.0675E-05	8.5107E-05	0.309
38	318	308.9	556.0	0.355	0.313	17.943	15.810	5.3554E-05	5.6496E-05	0.317
39	319	308.5	555.4	0.201	0.177	[illegible]	15.817	3.0230E-05	3.1890E-05	0.232
40	320	308.1	554.7	0.084	0.074	17.959	15.825	1.2614E-05	1.3307E-05	0.223
41	406	313.1	563.5	5.116	4.508	17.855	15.733	7.7541E-04	8.1824E-04	0.397
42	407	316.C	568.9	5.254	4.629	17.792	15.677	7.9937E-04	8.4369E-04	0.561
43	408	312.4	562.2	5.633	4.963	17.870	15.746	8.5301E-04	9.0008E-04	0.381
44	409	311.9	561.3	5.612	4.945	17.881	15.755	8.4941E-04	8.9625E-04	0.275
45	410	311.6	560.9	5.187	4.571	17.886	15.760	7.8480E-04	8.2806E-04	0.251
46	411	311.5	560.7	4.684	4.127	17.888	15.762	7.0862E-04	7.4768E-04	0.320
47	412	310.7	559.3	3.320	2.925	17.904	15.776	5.0177E-04	5.2940E-04	0.517
48	413	309.9	557.9	2.315	2.040	17.921	15.791	3.4958E-04	3.6881E-04	0.580
49	414	308.4	555.1	1.044	0.920	17.954	15.820	1.5726E-04	1.6589E-04	0.547
50	415	307.1	552.7	0.568	0.501	17.982	15.845	8.5486E-05	9.0170E-05	0.493
51	416	305.5	549.9	0.329	0.290	18.016	15.875	4.9457E-05	5.2161E-05	0.398
52	417	303.9	546.9	0.179	0.158	18.051	15.905	2.6813E-05	2.8276E-05	0.369
53	418	304.2	547.6	0.095	0.083	18.043	15.898	1.4193E-05	1.4968E-05	0.834
54	419	304.9	548.8	0.046	0.041	18.028	15.885	6.9488E-06	7.3285E-06	1.250
55	420	304.9	548.9	-0.009	-0.008	18.028	15.885	-1.3121E-06	-1.3838E-06	-3.358
56	506	314.3	565.8	4.946	4.358	17.828	15.709	7.5083E-04	7.9237E-04	0.394
57	507	313.7	564.6	4.938	4.351	17.842	15.721	7.4905E-04	7.9046E-04	0.404
58	508	313.5	564.2	5.273	4.646	17.847	15.725	7.9969E-04	8.4388E-04	0.388
59	509	312.6	562.6	5.110	4.503	17.865	15.742	7.7407E-04	8.1679E-04	0.255
60	510	312.2	562.0	4.833	4.258	17.873	15.748	7.3176E-04	7.7213E-04	0.227
61	511	311.3	560.3	4.664	4.109	17.893	15.766	7.0532E-04	7.4418E-04	0.255
62	512	309.2	556.6	3.883	3.421	17.937	15.805	5.8567E-04	6.1785E-04	0.448
63	513	307.C	552.6	3.083	2.716	17.984	15.846	4.6370E-04	4.8910E-04	0.545
64	514	303.8	546.8	1.705	1.502	18.052	15.906	2.5539E-04	2.6932E-04	0.530
65	515	306.7	552.1	1.016	0.895	17.989	15.851	1.5271E-04	1.6107E-04	0.552
66	516	305.9	550.7	0.712	0.627	18.007	15.866	1.0694E-04	1.1279E-04	0.581
67	517	305.7	550.3	0.490	0.432	18.011	15.870	7.3546E-05	7.7568E-05	0.626
68	518	305.5	549.9	0.320	0.282	18.015	15.874	4.8037E-05	5.0663E-05	0.659
69	519	305.6	550.1	0.222	0.195	18.013	15.872	3.3281E-05	3.5101E-05	0.736
70	520	305.2	549.4	0.086	0.076	18.022	15.880	1.7946E-05	1.8655E-05	0.731
71	601	304.1	556.4	0.000	0.000	17.938	15.806	0.0000E-39	0.0000E-39	-15.845
72	602	307.7	553.8	0.000	0.000	17.969	15.833	0.0000E-39	0.0000E-39	-11.825
73	603	306.1	551.0	0.000	0.000	18.003	15.863	0.0000E-39	0.0000E-39	-10.598
74	604	305.C	549.0	0.000	0.000	18.026	15.883	0.0000E-39	0.0000E-39	-14.126
75	605	303.6	546.6	0.000	0.000	18.055	15.909	0.0000E-39	0.0000E-39	*******

FREE-STREAM DENSITY-VELOCITY PRODUCT = 5.315[illegible]-01 (SLUGS/FT2-SEC)

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.444	15.659	15.796
PT2/PT1	5.384E-02	5.127E-02	5.172E-02
TEMP(DEG R)	2128.4	2177.9	2250.8
TT2/TT1	1.0291	1.0530	1.0863

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

3.5 FT. HT DATA TEST NO. 182 RUN NO. 93 FRAME 26 TO 52 CONSTANT SET 584

REF1	REF2	REF3	A	B	C	MACH	RE/FT	PT(PSI)	TT(DEG R)	RS(FT)
0.0	0.0	0.0	0	0	8	1 5.10	0.2029E 07	304.89	2013.70	1.0000

T(SEC)	PT(PSI)	TT(DEG R)	P1	P2	T1	STING ANG	IN POS
0.000	304.889	2012.921	0.282	0.315	761.938	-0.299	17.5953
0.070	304.889	2012.655	0.282	0.329	761.938	-0.312	17.6034
0.140	304.889	2012.921	0.282	0.451	763.762	-0.325	17.6034
0.210	304.889	2013.573	0.292	1.341	775.562	-0.325	17.5106
0.280	305.437	2013.441	0.348	3.995	840.140	-0.312	17.5066
0.350	305.437	2012.788	1.359	7.331	1315.555	-0.299	17.4864
0.420	304.889	2012.654	5.191	9.964	1739.681	-0.325	17.5469
0.490	304.889	2012.788	9.820	12.713	1880.502	-0.338	17.5429
0.560	304.889	2013.440	12.678	14.653	1973.561	-0.325	17.4823
0.630	305.437	2013.441	14.356	15.337	2021.385	-0.312	17.5630
0.700	305.620	2012.652	15.431	15.245	2051.927	-0.299	17.4743
0.770	304.889	2012.785	15.854	14.742	2092.568	-0.325	28.1582
0.840	305.437	2012.520	15.878	14.319	2068.740	-0.325	34.8921
0.910	304.889	2013.699	15.725	14.244	2084.209	-0.325	34.8921
0.980	305.437	2013.956	15.619	14.417	2086.140	-0.325	34.8921
1.050	305.437	2013.562	15.553	14.606	2092.568	-0.312	34.9163
1.120	304.889	2013.174	15.553	14.809	2098.989	-0.325	34.9163
1.190	304.889	2013.567	15.568	14.961	2089.998	-0.325	34.9203
1.260	304.889	2014.348	15.579	15.075	2117.562	-0.338	34.9203
1.330	305.437	2014.611	15.590	15.159	2111.805	-0.312	34.9163
1.400	305.437	2013.959	15.605	15.226	2122.034	-0.312	34.9203
1.470	304.889	2013.693	15.627	15.281	2118.201	-0.325	34.9203
1.540	304.889	2014.218	15.627	15.342	2123.312	-0.325	34.9243
1.610	304.889	2014.611	15.632	15.376	2109.244	-0.325	34.9203
1.680	305.620	2015.006	15.632	15.403	2115.004	-0.325	34.9163
1.750	305.620	2014.218	15.619	15.381	2116.283	-0.312	34.9163
1.820	304.889	2014.349	15.605	15.392	2114.364	-0.325	34.9122

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO.	182
5.10	6.6562E 06	2.0288E 06	0.305	20.74	1118.7	0.11816E 07	0.3048	1.000	RUN NO.	93
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT		
5.10	2.0288E 06	2.0288E 06	1.000	304.89	2013.7	508.12	1.0000	1.000		

CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)	CHAN	T/C	HW/HT	Q/QS	H/HS(1.000)	H/HS(0.908)	H/HS(0.874)
1	1	0.270	0.3069	0.3069	0.3511	0.3709	39	319	0.264	0.0051	0.0051	0.0059	0.0062
2	2	0.271	0.3074	0.3074	0.3518	0.3717	40	320	0.264	0.0046	0.0046	0.0053	0.0056
3	3	0.271	0.3068	0.3068	0.3511	0.3709	41	406	0.268	0.2862	0.2862	0.3273	0.3457
4	4	0.271	0.3174	0.3174	0.3632	0.3837	42	407	0.271	0.3066	0.3066	0.3508	0.3706
5	5	0.271	0.3163	0.3163	0.3620	0.3824	43	408	0.268	0.3791	0.3791	0.4336	0.4579
6	6	0.270	0.3201	0.3201	0.3663	0.3870	44	409	0.267	0.4143	0.4143	0.4738	0.5004
7	7	0.271	0.3258	0.3258	0.3728	0.3938	45	410	0.267	0.4071	0.4071	0.4656	0.4917
8	8	0.271	0.3169	0.3169	0.3627	0.3831	46	411	0.267	0.3848	0.3848	0.4401	0.4647
9	9	0.269	0.2997	0.2997	0.3429	0.3622	47	412	0.267	0.2995	0.2995	0.3424	0.3616
10	10	0.268	0.3102	0.3102	0.3548	0.3747	48	413	0.266	0.2243	0.2243	0.2564	0.2708
11	11	0.268	0.2774	0.2774	0.3173	0.3352	49	414	0.264	0.1363	0.1363	0.1557	0.1644
12	12	0.269	0.2017	0.2017	0.2308	0.2437	50	415	0.263	0.1053	0.1053	0.1203	0.1270
13	13	0.269	0.1148	0.1148	0.1313	0.1387	51	416	0.262	0.0786	0.0786	0.0897	0.0947
14	14	0.270	0.0745	0.0745	0.0852	0.0900	52	417	0.260	0.0610	0.0610	0.0697	0.0736
15	15	0.270	0.0559	0.0559	0.0640	0.0675	53	418	0.261	0.0505	0.0505	0.0577	0.0609
16	103	0.273	0.3199	0.3199	0.3663	0.3870	54	419	0.261	0.0380	0.0380	0.0434	0.0458
17	105	0.274	0.3207	0.3207	0.3672	0.3881	55	420	0.261	0.0233	0.0233	0.0266	0.0281
18	107	0.274	0.3422	0.3422	0.3919	0.4141	56	506	0.269	0.2662	0.2662	0.3045	0.3216
19	108	0.274	0.3341	0.3341	0.3826	0.4042	57	507	0.269	0.2555	0.2555	0.2923	0.3087
20	110	0.272	0.2660	0.2660	0.3045	0.3217	58	508	0.269	0.2746	0.2746	0.3141	0.3317
21	111	0.272	0.2268	0.2268	0.2596	0.2742	59	509	0.268	0.2816	0.2816	0.3221	0.3402
22	112	0.271	0.1666	0.1666	0.1906	0.2014	60	510	0.268	0.2707	0.2707	0.3096	0.3270
23	113	0.270	0.1085	0.1085	0.1242	0.1312	61	511	0.267	0.2594	0.2594	0.2966	0.31 -
24	114	0.269	0.0368	0.0368	0.0421	0.0444	62	512	0.265	0.2125	0.2125	0.2429	0.2565
25	115	0.268	0.0089	0.0089	0.0101	0.0107	63	513	0.263	0.1643	0.1643	0.1878	0.1982
26	306	0.288	-0.0000	-0.0000	-0.0000	-0.0000	64	514	0.260	0.1056	0.1056	0.1206	0.1273
27	307	0.272	0.3088	0.3088	0.3535	0.3734	65	515	0.263	0.0938	0.0938	0.1072	0.1132
28	308	0.271	0.3357	0.3357	0.3842	0.4059	66	516	0.263	0.0812	0.0812	0.0927	0.0979
29	309	0.271	0.3188	0.3188	0.3648	0.3854	67	517	0.263	0.0677	0.0677	0.0774	0.0817
30	310	0.270	0.3058	0.3058	0.3499	0.3696	68	518	0.262	0.0539	0.0539	0.0616	0.0650
31	311	0.288	-0.0000	-0.0000	-0.0000	-0.0000	69	519	0.262	0.0425	0.0425	0.0485	0.0512
32	312	0.269	0.2183	0.2183	0.2497	0.2637	70	520	0.262	0.0267	0.0267	0.0305	0.0322
33	313	0.268	0.1667	0.1667	0.1907	0.2014	71	601	0.265	-0.0000	-0.0000	-0.0000	-0.0000
34	314	0.267	0.0902	0.0902	0.1032	0.1090	72	602	0.263	-0.0000	-0.0000	-0.0000	-0.0000
35	315	0.266	0.0468	0.0468	0.0535	0.0565	73	603	0.262	-0.0000	-0.0000	-0.0000	-0.0000
36	316	0.266	0.0255	0.0255	0.0291	0.0308	74	604	0.260	-0.0000	-0.0000	-0.0000	-0.0000
37	317	0.265	0.0127	0.0127	0.0146	0.0154	75	605	0.259	-0.0000	-0.0000	-0.0000	-0.0000
38	318	0.265	0.0069	0.0069	0.0078	0.0083							

ORIGINAL PAGE IS
OF POOR QUALITY.

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. *** PRELIMINARY DATA ***

MACH	RE/METER	REL	LENGTH(METER)	PT(ATM)	TT(DEG K)	HT(JOULE/KG)	RS(METER)	HAW/HT	TEST NO. 182
5.10	6.6562E 06	2.0288E 06	0.305	20.74	1118.7	0.11816E 07	0.3048	1.000	RUN NO. 93
MACH	RE/FT	REL	LENGTH(FT)	PT(PSI)	TT(DEG R)	HT(BTU/LBM)	RS(FT)	HAW/HT	
5.10	2.0288E 06	2.0288E 06	1.000	304.89	2013.7	508.12	1.0000	1.000	

CHAN	T/C	TW(DEG K)	TW(DEG R)	Q(W/CM2)	Q(BTU/FT2-SEC)	QS(W/CM2)	QS(BTU/FT2-SEC)	ST(0.908)	ST(0.874)	TIME(SEC)
1	1	318.0	572.3	5.231	4.609	17.045	15.019	8.1649E-04	8.6247E-04	0.412
2	2	318.6	573.5	5.236	4.614	17.031	15.007	8.1802E-04	8.6413E-04	0.408
3	3	318.4	573.2	5.226	4.605	17.035	15.010	8.1630E-04	8.6230E-04	0.427
4	4	318.4	573.1	5.407	4.764	17.036	15.011	8.4445E-04	8.9203E-04	0.435
5	5	318.5	573.4	5.388	4.747	17.033	15.008	8.4163E-04	8.8907E-04	0.431
6	6	318.2	572.8	5.455	4.807	17.039	15.014	8.5180E-04	8.9979E-04	0.419
7	7	318.4	573.1	5.350	4.890	17.036	15.011	8.6683E-04	9.1567E-04	0.407
8	8	318.9	574.0	5.395	4.754	17.026	15.002	8.4319E-04	8.9074E-04	0.397
9	9	316.8	570.3	5.116	4.508	17.069	15.040	7.9743E-04	8.4227E-04	0.381
10	10	315.3	567.5	5.304	4.674	17.101	15.069	8.2506E-04	8.7135E-04	0.420
11	11	315.6	568.0	4.743	4.179	17.096	15.063	7.3802E-04	7.7945E-04	0.418
12	12	316.0	568.8	3.447	3.037	17.086	15.056	5.3667E-04	5.6681E-04	0.317
13	13	316.6	569.9	1.959	1.726	17.073	15.044	3.0528E-04	3.2244E-04	0.068
14	14	317.2	571.0	1.270	1.119	17.061	15.033	1.9812E-04	2.0926E-04	-0.200
15	15	317.2	570.9	0.954	0.840	17.062	15.034	1.4871E-04	1.5707E-04	-0.274
16	103	321.6	578.8	5.428	4.783	16.969	14.952	8.5140E-04	8.9959E-04	0.396
17	105	322.8	581.1	5.433	4.787	16.962	14.928	8.5359E-04	9.0199E-04	0.404
18	107	322.7	580.9	5.799	5.109	16.944	14.930	9.1090E-04	9.6254E-04	0.413
19	108	321.8	579.3	5.668	4.994	16.963	14.947	8.8928E-04	9.3964E-04	0.285
20	110	320.5	576.8	4.520	3.983	16.992	14.972	7.0790E-04	7.4791E-04	-0.054
21	111	320.1	576.2	3.855	3.397	16.999	14.979	6.0347E-04	6.3756E-04	-0.057
22	112	318.9	574.1	2.836	2.498	17.025	15.001	4.431 E-04	4.6816E-04	0.140
23	113	318.1	572.5	1.849	1.630	17.043	15.017	2.8 72E-04	3.0498E-04	0.289
24	114	316.2	569.2	0.628	0.554	17.081	15.051	9.7859E-05	1.0336E-04	0.249
25	115	314.8	566.6	0.152	0.134	17.112	15.078	2.3597E-05	2.4920E-05	-0.446
26	306	338.7	609.7	-0.000	-0.000	16.607	14.633	-5.2669E-17	-5.5724E-17	*******
27	307	319.9	575.9	5.251	4.627	17.003	14.982	8.2177E-04	8.6818E-04	0.404
28	308	319.3	574.7	5.713	5.034	17.017	14.995	8.9331E-04	9.4371E-04	0.277
29	309	318.5	573.2	5.431	4.785	17.034	15.010	8.4826E-04	8.9607E-04	0.016
30	310	318.0	572.3	5.212	4.592	17.045	15.019	8.1353E-04	8.5934E-04	-0.032
31	311	338.7	609.7	-0.000	-0.000	16.607	14.633	-1.4156E-13	-1.4977E-13	*******
32	312	316.0	568.8	3.730	3.287	17.086	15.055	5.8072E-04	6.1334E-04	0.209
33	313	315.7	568.3	2.850	2.511	17.092	15.060	4.4351E-04	4.6840E-04	0.296
34	314	314.7	566.4	1.545	1.361	17.114	15.080	2.4005E-04	2.5350E-04	0.140
35	315	313.4	564.1	0.801	0.706	17.141	15.104	1.2434E-04	1.3130E-04	-0.309
36	316	312.6	562.7	0.437	0.385	17.158	15.119	6.7787E-05	7.1576E-05	-0.902
37	317	311.7	561.1	0.219	0.193	17.177	15.135	3.3854E-05	3.5744E-05	-1.831
38	318	311.5	560.7	0.118	0.104	17.182	15.140	1.8255E-05	1.9273E-05	-2.789
39	319	311.1	560.0	0.088	0.078	17.190	15.147	1.3623E-05	1.4383E-05	-2.527
40	320	310.7	559.2	0.079	0.070	17.199	15.155	1.2281E-05	1.2965E-05	-1.292
41	406	315.3	567.6	4.893	4.312	17.101	15.068	7.6117E-04	8.0387E-04	0.391
42	407	318.6	573.4	5.222	4.601	17.032	15.008	8.1570E-04	8.6168E-04	0.569
43	408	315.1	567.1	6.486	5.715	17.106	15.073	1.0085E-03	1.0650E-03	0.435
44	409	314.7	566.4	7.091	6.248	17.115	15.080	1.1020E-03	1.1637E-03	0.348
45	410	314.5	566.1	6.969	6.141	17.118	15.083	1.0828E-03	1.1435E-03	0.317
46	411	314.3	565.7	6.589	5.806	17.123	15.088	1.0235E-03	1.0808E-03	0.362
47	412	313.6	564.4	5.132	4.522	17.138	15.101	7.9646E-04	8.4104E-04	0.512
48	413	312.7	562.8	3.848	3.391	17.157	15.117	5.9646E-04	6.2981E-04	0.542
49	414	311.0	559.8	2.342	2.064	17.192	15.149	3.6228E-04	3.8249E-04	0.441
50	415	309.7	557.4	1.813	1.598	17.220	15.173	2.7997E-04	2.9556E-04	0.374
51	416	308.0	554.4	1.356	1.195	17.256	15.205	2.0884E-04	2.2044E-04	0.308
52	417	306.3	551.3	1.056	0.930	17.292	15.237	1.6224E-04	1.7123E-04	0.243
53	418	306.7	552.1	0.873	0.770	17.283	15.229	1.3433E-04	1.4178E-04	0.179
54	419	307.6	553.7	0.656	0.578	17.264	15.212	1.0096E-04	1.0656E-04	0.106
55	420	307.5	553.4	0.402	0.354	17.267	15.215	6.1851E-05	6.5284E-05	-0.039
56	506	316.8	570.2	4.544	4.003	17.070	15.041	7.0809E-04	7.4790E-04	0.417
57	507	316.3	569.3	4.365	3.846	17.080	15.050	6.7979E-04	7.1799E-04	0.462
58	508	316.2	569.1	4.691	4.133	17.082	15.052	7.3044E-04	7.7148E-04	0.526
59	509	315.4	567.7	4.816	4.244	17.099	15.067	7.4917E-04	7.9121E-04	0.473
60	510	315.0	566.9	4.632	4.081	17.108	15.075	7.2012E-04	7.6053E-04	0.455
61	511	314.0	565.1	4.443	3.915	17.130	15.093	6.8592E-04	7.2455E-04	0.464
62	512	311.7	561.1	3.651	3.217	17.177	15.135	5.6514E-04	5.9669E-04	0.591
63	513	309.5	557.1	2.831	2.494	17.224	15.176	4.3692E-04	4.6124E-04	0.667
64	514	306.0	550.8	1.827	1.610	17.298	15.242	2.8 69E-04	2.9620E-04	0.619
65	515	309.7	557.5	1.616	1.424	17.220	15.173	2.4945E-04	2.6334E-04	0.567
66	516	309.0	556.1	1.399	1.232	17.236	15.187	2.1575E-04	2.277 E-04	0.568
67	517	308.9	555.9	1.167	1.028	17.237	15.189	1.8001E-04	1.9002E-04	0.566
68	518	308.5	555.3	0.930	0.820	17.245	15.195	1.4339E-04	1.5136E-04	0.567
69	519	308.5	555.4	0.732	0.645	17.244	15.195	1.1286E-04	1.1913E-04	0.591
70	520	308.0	554.5	0.460	0.406	17.255	15.204	7.0420E-05	7.4859E-05	0.634
71	601	312.0	561.7	-0.000	-0.000	17.170	15.129	-0.0000E-39	-0.0000E-39	88.159
72	602	309.8	557.6	-0.000	-0.000	17.218	15.172	-0.0000E-39	-0.0000E-39	10.835
73	603	307.8	554.0	-0.000	-0.000	17.260	15.209	-0.0000E-39	-0.0000E-39	4.225
74	604	306.4	551.5	-0.000	-0.000	17.289	15.234	-0.0000E-39	-0.0000E-39	2.316
75	605	304.9	548.9	-0.000	-0.000	17.321	15.262	-0.0000E-39	-0.0000E-39	1.930

FREE-STREAM DENSITY-VELOCITY PRODUCT = 9.4144E-01 (SLUGS/FT2-SEC)

370

1089704

NATIONAL AERONAUTICS AND SPACE ADMINISTRATION AMES RESEARCH CENTER MOFFETT FIELD CALIF. ••• PRELIMINARY DATA •••

PROBE	ONE	TWO	THREE
PRESSURE(PSI)	16.244	15.605	15.392
PT2/PT1	5.328E-02	5.118E-02	5.049E-02
TEMP(DEG R)	2053.9	2114.4	2181.1
TT2/TT1	1.0199	1.0500	1.0831